NUTRICIA

LIFE-TRANSFORMING NUTRITION

NUTRICIA PRODUCT REFERENCE GUIDE

FOR US CLINICIANS

Updated as of October 2023

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For information on Nutricia products, reimbursement,* and other helpful resources, visit **www.Nutricia-NA.com**. For a complete listing of our websites, see Resources.

*** For reimbursement information, please see Resources.**

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NUTRICIA
LIFE-TRANSFORMING NUTRITION

- Nutricia is a global health company.
- Nutricia leads the development and use of advanced medical nutrition for specialized care.
- Pioneering nutritional solutions to help people live longer, more joyful and healthier lives.

This guide is a convenient reference for clinicians to the full range of Nutricia's medical nutritional products. Nutricia strives to develop quality products that offer choice and flexibility to today's patients to enhance diet acceptance. Please note that all of our products require medical supervision. For additional information, please call our Nutrition Services team or visit our web site at **www.Nutricia-NA.com**. Our staff is comprised of individuals with the highest level of expertise ready to offer support to our customers. We look forward to hearing from you.

Consumers and Patients:

Nutricia products are available for convenient home delivery directly from Nutricia North America. Consumers can call our toll free number or visit one of our websites. See Resources for a list of our websites.

Consumers can also purchase Nutricia products through retail pharmacies. Pharmacies can special order Nutricia products from their wholesaler or directly from Nutricia North America.

For the most up to date information please scan the QR code.

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Ashton
Diagnosed with eosinophilic esophagitis (EoE)

GI/ALLERGY

NLC™
NUTRICIA LEARNING CENTER

Find more information and resources on these and all of our products at **www.NutriciaLearningCenter.com**

Pepticate™ Infant Formula

An extensively hydrolyzed whey protein-based powdered infant formula specifically designed for infants with cow milk allergy, containing a clinically tested blend of prebiotics, lactose, DHA/ARA, and nucleotides.

Main Features:

- Hypoallergenic
- Contains lactose found naturally in breast milk[1] helping to make the formula more palatable[2]
- Contains nucleotides which are naturally present in breast milk[3]
- Prebiotic blend of scGOS and lcFOS in a 9:1 ratio
- DHA at 0.32% fatty acids
- Osmolality (at 0.67 kcal/mL): 280 mOsm/kg H_2O
- Free water (at 0.67 kcal/mL): 90.0%
- Potential Renal Solute Load (at 0.67 kcal/mL): 140 mOsm/L
- Displacement 0.74 mL/g
- Energy distribution:

Protein	9%
Carbohydrate	42%
Fat (MCT 15%/LCT 85%)	47%

Indications:

- Cow milk allergy

For details on scoop size, household measures, sample information and administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
Can 191498	49735-0000-91	B4161	1 x 400 g (14.1 oz)	1968
Case 192268	49735-0100-91	B4161	4 x 400 g (14.1 oz)	1968

WIC[1]: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

1. Kunz, et al. Annu Rev Nutr. 2000;20:699-722. 2. Maslin, et al. Pediatr Allergy Immunol. 2018;29:857-62. 3. Field. J Nutr. 2005;135:1-4.
scGOS = short chain galactooligosaccharides; lcFOS = long chain fructooligosaccharides

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal
Calories	492	100
Protein Equivalent, g	11.7	2.4
Fat, g	25.5	5.2
Linoleic Acid, mg	3340	680
α-Linolenic Acid, mg	613	125
DHA, mg	78.0	16.0
ARA, mg	86.0	17.0
Carbohydrate, g	51.7	10.5
Soluble Fiber, g	4.1	0.8
Vitamins		
Vitamin A, IU (mcg RE)	1294 (388)	263 (79.0)
Vitamin D3, IU (mcg)	374 (9.4)	76.0 (1.9)
Vitamin E, IU (mg α-TE)	12.3 (7.3)	2.5 (1.5)
Vitamin K, mcg	35.0	7.0
Thiamine, mcg	367	75.0
Riboflavin, mcg	735	149
Vitamin B6, mcg	408	83.0
Vitamin B12, mcg	1.3	0.27
Niacin, mcg	3200	640
Folic Acid, mcg	66.0	13.0
Pantothenic Acid, mcg	2425	493
Biotin, mcg	16.0	3.2
Vitamin C, mg	67.0	14.0
Choline, mg	74.0	15.0
Inositol, mg	24.0	4.9

Minerals	Per 100 g	Per 100 kcal
Calcium, mg	346	70.0
Phosphorus, mg	182	37.0
Magnesium, mg	39.0	7.9
Iron, mg	4.9	1.0
Zinc, mg	3.7	0.75
Manganese, mcg	75.0	15.0
Copper, mcg	294	60.0
Iodine, mcg	88.0	18.0
Molybdenum, mcg	≤ 44.0	≤9.0
Chromium, mcg	≤ 44.0	≤9.0
Selenium, mcg	11.0	2.3
Sodium, mg	150	31.0
Potassium, mg	598	122
Chloride, mg	291	59.0

Ingredients:

Whey Protein Hydrolysate (from cow milk)*, Maltodextrin, Vegetable Oils (Palm Oil, Canola Oil, Coconut Oil, Sunflower Oil), Galactooligosaccharides (from cow milk) and less than 2% of each of the following: Emulsifier (Citric Acid Esters of Mono- and Diglycerides), Fructooligosaccharides, Calcium Phosphate, Tuna Fish Oil,† Potassium Chloride, Sodium Citrate, Magnesium Chloride, *Mortierella Alpina* Oil,‡ Calcium Carbonate, Choline Chloride, L-Ascorbic Acid, Taurine, Sodium L-Ascorbate, Ferrous Sulfate, Inositol, Zinc Sulfate, Uridine 5' Monophosphate Sodium Salt, Cytidine 5'-Monophosphate, Adenosine 5'-Monophosphate, Inosine 5'-Monophosphate Sodium Salt, L-Carnitine, DL-Alpha Tocopheryl Acetate, Nicotinamide, Calcium D-Pantothenate, Guanosine 5'-Monophosphate Sodium Salt, Copper Sulfate, Retinyl Palmitate, DL-Alpha Tocopherol, Thiamin Hydrochloride, Riboflavin, Pyridoxine Hydrochloride, Cholecalciferol, Manganese Sulfate, Potassium Iodide, Pteroylmonoglutamic Acid, Phytomenadione, D-Biotin, Sodium Selenite, Cyanocobalamin.

*Modified to be better tolerated in infants with cow milk allergy

†A source of docosahexaenoic acid (DHA)

‡A source of arachidonic acid (ARA)

Neocate® Syneo® Infant

A nutritionally complete, powdered amino acid-based infant formula with prebiotics and probiotics specifically designed for infants with food allergies, containing iron and nucleotides. Neocate Syneo Infant is the first and only amino acid-based formula with pre- and probiotics designed to help support immune function.

Main Features:

- Hypoallergenic
- Backed by 4 clinical trials, clinically shown to:
  - Effectively relieves food allergy symptoms when used as part of dietary management[1]
  - Support growth and development[1-5]
  - Target gut dysbiosis and help balance the gut microbiota in infants with food allergies[3-6]
- Probiotic *Bifidobacterium breve* M-16V
- Prebiotic fiber blend of scFOS and lcFOS
- DHA at 0.35% fatty acids; DHA and ARA at 1:1 ratio
- Osmolality (at 0.67 kcal/mL): 360 mOsm/kg H_2O
- Free water (at 0.67 kcal/mL): 90.0%
- Energy distribution:

Protein	11.4%
Carbohydrate	45.1%
Fat (MCT 33%/LCT 67%)	43.5%

- Potential renal solute load (at 0.67 kcal/mL): 176 mOsm/L
- Displacement: 0.71 mL/g
- Kosher Pareve & Halal

Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Eosinophilic esophagitis (EoE)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Gastroesophageal reflux (GER)

For details on scoop size, household measures, sample information and administration, please see the end of this section.
For guidance on monitoring micronutrients, please see page 43.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
127049	49735-0114-36	B4161	4 x 400 g (14.1 oz)	1900

WIC[1]: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

scFOS = short-chain fructooligosaccharides; lcFOS = long-chain fructooligosaccharides

1. Burks, et al. Pediatr Allergy Immunol. 2015;26:316-22. 2. Harvey, et al. Pediatr Res. 2014;75:343-51. 3. Candy, et al. Pediatr Res. 2018;83:677-86. 4. Fox, et al. Clin Transl Allergy. 2019;9:5. 5. Chatchatee, et al. J Allergy Clin Immunol. 2022;149:650-8.e5. 6. Wopereis, et al. Clin Transl Allergy. 2019;9:27.

Not recommended for use in infants with a central venous catheter or post-pyloric feeding tube unless directed by a healthcare professional.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal
Calories	475	100
Protein Equivalent, g	13.5	2.8
Fat, g	23.0	4.8
Linoleic Acid, mg	3348	705
α-Linolenic Acid, mg	396	83.4
DHA, mg	77.0	16.2
ARA, mg	77.0	16.2
Carbohydrate, g	53.5	11.3
Soluble Fiber, g	4.5	0.95
Vitamins		
Vitamin A, IU (mcg RE)	1352 (406)	285 (85.5)
Vitamin D_3, IU (mcg)	352 (8.8)	74.1 (1.9)
Vitamin E, IU (mg α-TE)	6.5 (4.4)	1.4 (0.93)
Vitamin K, mcg	42.5	9.0
Thiamine, mcg	540	110
Riboflavin, mcg	540	114
Vitamin B_6, mcg	540	114
Vitamin B_{12}, mcg	1.3	0.27
Niacin, mcg	4900	1032
Folic Acid, mcg	64.0	13.5
Pantothenic Acid, mcg	2900	611
Biotin, mcg	19.0	4.0
Vitamin C, mg	51.6	10.9
Choline, mg	95.4	20.1
Inositol, mg	108	22.7

Minerals	Per 100 g	Per 100 kcal
Calcium, mg	549	116
Phosphorus, mg	388	81.7
Magnesium, mg	50.0	10.5
Iron, mg	7.1	1.5
Zinc, mg	5.2	1.1
Manganese, mcg	190	40.0
Copper, mcg	400	84.2
Iodine, mcg	98.0	20.6
Molybdenum, mcg	11.0	2.3
Chromium, mcg	10.4	2.2
Selenium, mcg	14.2	3.0
Sodium, mg	185	38.9
Potassium, mg	515	108
Chloride, mg	378	79.6

Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Medium Chain Triglycerides, High Oleic Sunflower, Sunflower, Canola), Fructooligosaccharides (Oligofructose Inulin), and less than 2% of each of the following: Dipotassium Phosphate, Tricalcium Phosphate, Calcium Carbonate, Calcium Glycerophosphate, L-Arginine-L-Aspartate, Calcium Phosphate Dibasic, L-Leucine, L-Lysine Acetate, Tripotassium Citrate, L-Glutamine, L-Proline, L-Valine, Citric Acid Esters of Mono- and Diglycerides (CITREM), Glycine, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, L-Histidine, L-Alanine, Sodium Chloride, L-Cystine, L-Tryptophan, Magnesium Chloride, Choline Bitartrate, L-Methionine, Tricalcium Citrate, Magnesium L-Aspartate, *M. alpina* Oil*, *C. cohnii* Oil**, M-Inositol, L-Ascorbic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, Uridine 5'-Monophosphate Disodium Salt, Cytidine 5'-Monophosphate, Niacinamide, Inosine 5'-Monophosphate Disodium Salt, Adenosine 5'-Monophosphate, Calcium D-Pantothenate, Guanosine 5'-Monophosphate Disodium Salt, DL-alpha Tocopheryl Acetate, *Bifidobacterium breve* M-16V, Ascorbyl Palmitate, Manganese Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Cupric Sulfate, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Potassium Iodide, Mixed Tocopherols, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D_3, Cyanocobalamin.

*A source of arachidonic acid (ARA)

**A source of docosahexaenoic acid (DHA)

Neocate® Infant DHA / ARA

A nutritionally complete, powdered amino acid-based infant formula containing iron and nucleotides.

Main Features:

- Hypoallergenic
- Nucleotides added (present in breast milk[1])
- DHA at 0.35% fatty acids
  DHA and ARA at 1:1 ratio
- Osmolality (at 0.67 kcal/mL):
  340 mOsm/kg H_2O
- Free water (at 0.67 kcal/mL): 90.3%
- Energy distribution:

Protein	11.2%
Carbohydrate	43.1%
Fat (MCT 33% / LCT 67%)	45.7%

- Potential renal solute load (at 0.67 kcal/mL): 168 mOsm/L
- Displacement: 0.70 mL/g
- Kosher Pareve & Halal

Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions

For details on scoop size, household measures, sample information and administration, please see the end of this section.
For guidance on monitoring micronutrients, please see page 43.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
125626	49735-0125-95	B4161	4 x 400 g (14.1 oz)	1932

WIC[1]: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

1. Field. J Nutr. 2005;135:1-4.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal
Calories	483	100
Protein Equivalent, g	13.5	2.8
Fat, g	24.5	5.1
Linoleic Acid, mg	3565	738
α-Linolenic Acid, mg	419	86.8
DHA, mg	81.6	16.9
ARA, mg	81.6	16.9
Carbohydrate, g	52.0	10.8
Vitamins		
Vitamin A, IU (mcg RE)	1352 (406)	280 (84.1)
Vitamin D_3, IU (mcg)	352 (8.8)	72.9 (1.8)
Vitamin E, IU (mg α T.E.)	6.8 (4.6)	1.4 (0.94)
Vitamin K, mcg	42.5	8.8
Thiamine, mcg	540	110
Riboflavin, mcg	540	110
Vitamin B_6, mcg	540	112
Vitamin B_{12}, mcg	1.3	0.27
Niacin, mcg	4900	1014
Folic Acid, mcg	64.0	13.3
Pantothenic Acid, mcg	2900	600
Biotin, mcg	19.0	3.9
Vitamin C, mg	51.6	10.7
Choline, mg	95.4	19.8
Inositol, mg	108	22.4

Minerals	Per 100 g	Per 100 kcal
Calcium, mg	561	116
Phosphorus, mg	397	82.2
Magnesium, mg	51.0	10.6
Iron, mg	7.3	1.5
Zinc, mg	5.3	1.1
Manganese, mcg	200	41.4
Copper, mcg	410	84.9
Iodine, mcg	100	20.7
Molybdenum, mcg	11.3	2.3
Chromium, mcg	10.6	2.2
Selenium, mcg	14.5	3.0
Sodium, mg	189	39.1
Potassium, mg	525	109
Chloride, mg	386	79.9

Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Medium Chain Triglycerides, High Oleic Sunflower, Sunflower, Canola), and less than 2% of each of the following: Calcium Phosphate Dibasic, Dipotassium Phosphate, Tricalcium Phosphate, Calcium Carbonate, Calcium Glycerophosphate, L-Arginine-L-Aspartate, L-Leucine, Tripotassium Citrate, L-Lysine Acetate, L-Glutamine, L-Proline, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Valine, Glycine, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, L-Histidine, L-Alanine, Sodium Chloride, L-Cystine, Magnesium Chloride, L-Tryptophan, Choline Bitartrate, L-Methionine, Tricalcium Citrate, Magnesium L-Aspartate, *M. alpina* Oil*, *C. cohnii* Oil**, M-Inositol, L-Ascorbic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, Uridine 5'-Monophosphate Disodium Salt, Cytidine 5'-Monophosphate, Niacinamide, Inosine 5'-Monophosphate Disodium Salt, Adenosine 5'-Monophosphate, Calcium D-Pantothenate, Guanosine 5'-Monophosphate Disodium Salt, DL-alpha Tocopheryl Acetate, Ascorbyl Palmitate, Manganese Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Cupric Sulfate, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Potassium Iodide, Mixed Tocopherols, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D_3, Cyanocobalamin.

*A source of arachidonic acid (ARA)

**A source of docosahexaenoic acid (DHA)

Neocate® Nutra

The first and only amino acid-based semi-solid medical food for children and infants over 6 months of age.

Main Features:

- Cereal-style option to promote oral development[1]
- Hypoallergenic
- Made with 100% non-allergenic amino acids
- Dairy and gluten free
- High in calcium
- Good source of vitamin D, zinc and iron
- No artificial colors, flavors, sweeteners or preservatives
- Energy distribution:

Protein	7%
Carbohydrate	57%
Fat (MCT 4% / LCT 96%)	36%

Note: Not suitable as sole source of nutrition. Not for bottle or tube feeding.

Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Eosinophilic esophagitis (EoE)
  - Gastroesophageal reflux (GER)
  - Short bowel syndrome (SBS)
  - Malabsorption

For details on scoop size, household measures, sample information and administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
66739	49735-0167-39	B4161	4 x 400 g (14.1 oz)	1888

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

1. Haas. Nutr Clin Pract. 2011;26:E19(N36).

Nutrition Information:

Nutrients	Per 100 g	Per Suggested Serving (37 g Powder)
Calories	472	175
Protein Equivalent, g	8.2	3.0
Fat, g	18.8	7.0
Linoleic Acid, mg	3222	1192
Carbohydrate, g	67.4	24.9
Vitamins		
Vitamin A, IU (mcg RE)	649 (195)	240 (72.2)
Vitamin D_3, IU (mcg)	172 (4.3)	63.6 (1.6)
Vitamin E, IU (mg α T.E.)	3.4 (2.3)	1.3 (0.84)
Vitamin K, mcg	18.5	6.8
Thiamine, mcg	250	90
Riboflavin, mcg	250	92.5
Vitamin B_6, mcg	250	92.5
Vitamin B_{12}, mcg	0.60	0.22
Niacin, mcg	1100	407
Folic Acid, mcg	27.5	10.2
Pantothenic Acid, mcg	1400	518
Biotin, mcg	9.1	3.4
Vitamin C, mg	23.0	8.5
Choline, mg	45.0	16.7
Inositol, mg	49.0	18.1

Minerals	Per 100 g	Per Suggested Serving (37 g Powder)
Calcium, mg	668	247
Phosphorus, mg	340	126
Magnesium, mg	21.0	7.8
Iron, mg	5.9	2.2
Zinc, mg	4.1	1.5
Manganese, mcg	310	115
Copper, mcg	310	115
Iodine, mcg	41.4	15.3
Molybdenum, mcg	8.8	3.3
Chromium, mcg	10.0	3.7
Selenium, mcg	11.3	4.2
Sodium, mg	38.0	14.1
Potassium, mg	<20	<10
Chloride, mg	44.0	16.3

Ingredients:

Corn Syrup Solids, Rice Starch, Refined Vegetable Oil (Non-Hydrogenated Coconut, High Oleic Sunflower, Canola, Sunflower), Sugar, Calcium Phosphate Tribasic, contains 2% or less than each of the following: L-Arginine-L-Aspartate, L-Leucine, L-Lysine Acetate, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Glutamine, L-Proline, L-Valine, Glycine, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, L-Histidine, L-Alanine, L-Cystine, L-Tryptophan, L-Methionine, Choline Bitartrate, Magnesium L-Aspartate, Magnesium Acetate, M-Inositol, L-Ascorbic Acid, Ferrous Sulfate, Taurine, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Chromium Chloride, Folic Acid, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Neocate® Junior, Unflavored
(without prebiotics)

A nutritionally complete, powdered amino acid-based medical food for individuals over the age of 1.

Main Features:

- Hypoallergenic
- 100% non-allergenic free amino acids
- Nutritionally complete
- Great-tasting Neocate Junior shown to help support adherence (92%) in one clinical trial[1]
- Also available with prebiotic fiber in 5 great-tasting flavors
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL): 600 mOsm/kg H_2O
- Free water (at 1 kcal/mL): 85.6%
- Energy distribution:
  Protein 12.4%
  Carbohydrate 42.6%
  Fat (MCT 35% / LCT 65%) 45%
- Kosher Pareve & Halal
- Displacement: 0.69 mL/g

1. Sorensen, et al. Allergy. 2017;72:523(0899).

Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Eosinophilic esophagitis (EoE)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Gastroesophageal reflux (GER)
  - Short bowel syndrome (SBS)
  - Malabsorption

Meets or exceeds 100% DRIs[5] for protein + 25 key vitamins & minerals:

1-3 years	930 kcal
4-8 years	1370 kcal
9-13 years	1565 kcal
14-18 years	2550 kcal

For details on scoop size, household measures, sample information and administration, please see the end of this section.
For guidance on monitoring micronutrients, please see page 43.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
127048	49735-0117-90	B4161 or B4153	4 x 400 g (14.1 oz)	1916

WIC[1]: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal
Calories	479	100
Protein Equivalent, g	14.8	3.1
Fat, g	24.0	5.0
Linoleic Acid, mg	3912	818
Carbohydrate, g	51.0	10.7
Vitamins		
Vitamin A, IU (mcg RE)	956 (287)	200 (60.0)
Vitamin D_3, IU (mcg)	380 (9.5)	79.4 (2.0)
Vitamin E, IU (mg α T.E.)	10.0 (6.7)	2.1 (1.4)
Vitamin K, mcg	19.2	4.0
Thiamine, mg	0.48	0.10
Riboflavin, mg	0.96	0.20
Vitamin B_6, mg	0.48	0.10
Vitamin B_{12}, mcg	1.9	0.40
Niacin, mg	4.3	0.90
Folic Acid, mcg	143	29.9
Pantothenic Acid, mg	1.9	0.40
Biotin, mcg	14.4	3.0
Vitamin C, mg	44.6	9.3
Choline, mg	143	29.9
Inositol, mg	105	21.9

Minerals	Per 100 g	Per 100 kcal
Calcium, mg	565	118
Phosphorus, mg	382	79.8
Magnesium, mg	76.5	16.0
Iron, mg	7.4	1.5
Zinc, mg	4.7	0.98
Manganese, mg	0.62	0.13
Copper, mcg	530	111
Iodine, mcg	85.2	17.8
Molybdenum, mcg	21.5	4.5
Chromium, mcg	18.0	3.8
Selenium, mcg	19.2	4.0
Sodium, mg	239	50.0
Potassium, mg	653	136
Chloride, mg	364	76.1

Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), High Oleic Sunflower Oil, Sunflower Oil, Canola Oil), L-Serine, and less than 2% of each of the following: L-Glutamine, Glycine, L-Alanine, L-Leucine, L-Lysine Acetate, L-Threonine, L-Tyrosine, Dipotassium Phosphate, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Valine, Tricalcium Phosphate, Maltodextrin, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, Calcium Carbonate, L-Proline, L-Cystine, L-Histidine, L-Phenylalanine, Choline Bitartrate, Magnesium Hydrogen Phosphate, L-Methionine, L-Arginine, Sodium Chloride, Calcium Chloride, L-Tryptophan, Magnesium Chloride, M-Inositol, L-Ascorbic Acid, Sunflower Lecithin, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Ascorbyl Palmitate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Riboflavin, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Neocate® Junior

A nutritionally complete, powdered amino acid-based medical food with prebiotic fiber for individuals over the age of 1.

Main Features:

- Hypoallergenic
- Contains prebiotic fiber to help support total gut health
- 100% non-allergenic free amino acids
- Nutritionally complete
- Great-tasting Neocate Junior shown to help support adherence (92%) in one clinical trial[1]
- Available in 5 great-tasting flavors: unflavored, vanilla, strawberry, chocolate & tropical
- Also available without prebiotic fiber in unflavored
- Kosher Pareve and Halal (Strawberry is Halal but not Kosher Pareve)

	Unflavored with prebiotics	Strawberry	Vanilla	Chocolate	Tropical
Osmolality (mOsm/kg H_2O)†	620	610	620	660	670
Free water†	84.3%	85.2%	85.2%	84.8%	84.8%
Displacement, mL/g	0.74	0.70	0.70	0.70	0.70
Energy distribution:					
Protein	12.5%	12.5%	12.5%	12.3%	12.6%
Carbohydrate	43.6%	43.6%	43.6%	44.7%	45.5%
Fat (MCT 35%/LCT 65%)	43.9%	43.9%	43.9%	43.0%	41.9%

†Standard dilution = 1 kcal/mL

1. Sorensen, et al. Allergy. 2017;72:523(0899).

Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Eosinophilic esophagitis (EoE)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Gastroesophageal reflux (GER)
  - Short bowel syndrome (SBS)
  - Malabsorption

Meets or exceeds 100% DRIs[5] for protein + 25 key vitamins & minerals:

1-3 years	930 kcal
4-8 years	1370 kcal
9-13 years	1565 kcal
14-18 years	2550 kcal

For details on scoop size, household measures, sample information and administration, please see the end of this section.
For guidance on monitoring micronutrients, please see page 43.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
134054 - Unflavored	49735-0129-12	B4161 or B4153	4 x 400 g (14.1 oz)	1888
133282 - Vanilla	49735-0106-27	B4161 or B4153	4 x 400 g (14.1 oz)	1888
133280 - Strawberry	49735-0164-56	B4161 or B4153	4 x 400 g (14.1 oz)	1888
133283 - Chocolate	49735-0126-90	B4161 or B4153	4 x 400 g (14.1 oz)	1840
133048 - Tropical	49735-0121-24	B4161 or B4153	4 x 400 g (14.1 oz)	1804

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Vanilla, Strawberry, Unflavored (with prebiotics) Per 100 g	Per 100 kcal	Chocolate Per 100 g	Per 100 kcal	Tropical Per 100 g	Per 100 kcal
Calories	472	100	460	100	451	100
Protein Equivalent, g	14.8	3.1	14.2	3.1	14.2	3.1
Fat, g	23.0	4.9	22.0	4.8	21.0	4.7
Linoleic Acid, mg	3750	794	3590	780	3420	758
Carbohydrate, g	51.4**	10.9	51.4	11.2	51.4	11.4
Prebiotic Fiber, g	1.9	0.40	1.9	0.41	1.9	0.42
Vitamins						
Vitamin A, IU (mcg R.E.)	956 (287)	202 (60.8)	956 (287)	208 (62.4)	956 (287)	212 (63.6)
Vitamin D3, IU (mcg)	380 (9.5)	80.5 (2.0)	380 (9.5)	82.6 (2.1)	380 (9.5)	84.3 (2.1)
Vitamin E, IU (mg α-T.E.)	10.0 (6.7)	2.1 (1.4)	10.0 (6.7)	2.2 (1.5)	10.0 (6.7)	2.2 (1.5)
Vitamin K, mcg	19.2	4.1	19.2	4.2	19.2	4.3
Thiamine, mg	0.48	0.10	0.48	0.10	0.48	0.11
Riboflavin, mg	0.96	0.20	0.96	0.21	0.96	0.21
Vitamin B6, mg	0.48	0.10	0.48	0.10	0.48	0.11
Vitamin B12, mcg	1.9	0.40	1.9	0.41	1.9	0.42
Niacin, mg	4.3	0.91	4.3	0.93	4.3	0.95
Folic Acid, mcg	143	30.3	143	31.1	143	31.7
Pantothenic Acid, mg	1.9	0.40	1.9	0.41	1.9	0.42
Biotin, mcg	14.4	3.1	14.4	3.1	14.4	3.2
Vitamin C, mg	44.6	9.4	44.6	9.7	44.6	9.9
Choline, mg	143	30.3	143	31.1	143	31.7
Inositol, mg	105	22.2	105	22.8	105	23.3
Minerals						
Calcium, mg	565	120	565	123	565	125
Phosphorus, mg	382	80.9	382	83.0	382	84.7
Magnesium, mg	76.5	16.2	76.5	16.6	76.5	17.0
Iron, mg	7.4	1.6	7.4	1.6	7.4	1.6
Zinc, mg	4.7	1.0	4.7	1.0	4.7	1.0
Manganese, mg	0.62	0.13	0.62	0.13	0.62	0.14
Copper, mcg	530	112	530	115	530	118
Iodine, mcg	85.2	18.1	85.2	18.5	85.2	18.9
Molybdenum, mcg	21.5	4.6	21.5	4.7	21.5	4.8
Chromium, mcg	18.0	3.8	18.0	3.9	18.0	4.0
Selenium, mcg	19.2	4.1	19.2	4.2	19.2	4.3
Sodium, mg	239	50.6	239	52.0	239	53.0
Potassium, mg	653	138	653	142	653	145
Chloride, mg	364	77.1	364	79.1	364	80.7

**Strawberry 51.5

Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), High Oleic Sunflower Oil, Sunflower Oil, Canola Oil), L-Serine, and less than 2% of each of the following: L-Glutamine, Glycine, L-Alanine, L-Leucine, L-Lysine Acetate, L-Threonine, L-Tyrosine, Dipotassium Phosphate, Fructooligosaccharides, Inulin, L-Valine, Citric Acid Esters of Mono- and Diglycerides (CITREM), Tricalcium Phosphate, Maltodextrin, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, Calcium Carbonate, L-Proline, L-Cystine, L-Histidine, L-Phenylalanine, Choline Bitartrate, Magnesium Hydrogen Phosphate, L-Methionine, L-Arginine, Sodium Chloride, Calcium Chloride, L-Tryptophan, Magnesium Chloride, M-Inositol, L-Ascorbic Acid, Sunflower Lecithin, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, Dl-Alpha Tocopheryl Acetate, Ascorbyl Palmitate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Riboflavin, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.
Vanilla also contains less than 2% of the following: Artificial Flavor, Sucralose.
Strawberry also contains less than 2% of the following: Artificial Flavor, Sucralose, Citric Acid.
Chocolate also contains: Artificial Flavors, and less than 2% of Sucralose.
Tropical also contains: Artificial Flavor, Citric Acid, and less than 2% of Acesulfame Potassium.

Neocate® Splash

The first and only nutritionally complete, ready-to-feed amino acid-based medical food for individuals over the age of 1.

Main Features:

- Hypoallergenic
- 100% non-allergenic free amino acids
- Nutritionally complete
- Sterile liquid, ideal for in- and outpatient use
- Convenient ready-to-feed 8 fl oz cartons (for oral and/or tube feeding)
- Gluten free
- Great-tasting Neocate Splash shown to help support adherence in one clinical trial[1]
- Available in 5 great-tasting flavors: Vanilla, Orange-Pineapple, Grape, Tropical Fruit, Unflavored
- Energy density = 1 kcal/mL
- Energy distribution:
  Protein 12%
  Carbohydrate 42%
  Fat (MCT 35% / LCT 65%) 46%
- Osmolality (mOsm/kg H_2O):
  670 (Unflavored), 740 (Grape), 710 (Vanilla)
  790 (Orange-Pineapple, Tropical Fruit)
- Free water: 84.6%

Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Eosinophilic esophagitis (EoE)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Gastroesophageal reflux (GER)
  - Short bowel syndrome (SBS)
  - Malabsorption

For details on sample information and administration, please see the end of this section.

Meets or exceeds 100% DRIs[5] for protein + 25 key vitamins & minerals:

1-3 years	930 mL
4-8 years	1370 mL
9-13 years	1565 mL
14-18 years	2550 mL

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Carton
176678 - Vanilla	49735-0100-59	B4161 and B4153	27 x 237 mL (8 fl oz)	237
122436 - Orange Pineapple	49735-0124-36	B4161 or B4153	27 x 237 mL (8 fl oz)	237
122435 - Grape	49735-0124-35	B4161 or B4153	27 x 237 mL (8 fl oz)	237
122437 - Tropical Fruit	49735-0124-37	B4161 or B4153	27 x 237 mL (8 fl oz)	237
111394 - Unflavored	49735-0144-51	B4161 or B4153	27 x 237 mL (8 fl oz)	237

WIC[1]: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

1. Warners, et al. Aliment Pharmacol Ther. 2017;45:777-87.

Nutrition Information:

Nutrients	Per Carton (237 mL)	Per 100 mL
Calories	237	100
Protein Equivalent, g	7.1	3.0
Fat, g	12.1	5.1
Linoleic Acid, mg (Unflavored)	769 (691)	325 (292)
Carbohydrate, g	24.9	10.5
Vitamins		
Vitamin A, IU (mcg R.E.)	474 (142)	200 (60.0)
Vitamin D_3, IU (mcg)	190 (4.7)	80.0 (2.0)
Vitamin E, IU (mg α T.E.)	5.0 (3.3)	2.1 (1.4)
Vitamin K, mcg	9.5	4.0
Thiamine, mg	0.24	0.10
Riboflavin, mg	0.47	0.20
Vitamin B_6, mg	0.24	0.10
Vitamin B_{12}, mcg	0.95	0.40
Niacin, mg	2.1	0.90
Folic Acid, mcg	70.9	29.9
Pantothenic Acid, mg	0.95	0.40
Biotin, mcg	7.1	3.0
Vitamin C, mg	22.0	9.3
Choline, mg	70.9	29.9
Inositol, mg	52.1	22.0

Minerals	Per Carton (237 mL)	Per 100 mL
Calcium, mg	280	118
Phosphorus, mg	190	80.0
Magnesium, mg	37.9	16.0
Iron, mg	3.6	1.5
Zinc, mg	2.3	0.98
Manganese, mg	0.31	0.13
Copper, mcg	237	100
Iodine, mcg	42.2	17.8
Molybdenum, mcg	10.7	4.5
Chromium, mcg	9.0	3.8
Selenium, mcg	9.5	4.0
Sodium, mg	142	60.0
Potassium, mg	325	137
Chloride, mg	180	76.0

Ingredients:

Water, Maltodextrin, Sugar, Refined Vegetable Oils (High Oleic Sunflower Oil, Medium Chain Triglycerides (Modified Palm Kernel And/Or Coconut Oil), Canola Oil), And Less Than 2% of each of the following: Calcium Glycerophosphate, Malic Acid, L-Arginine, L-Lysine L-Aspartate, Microcrystalline Cellulose, L-Leucine, Tripotassium Citrate, L-Phenylalanine, Diacetyl Tartaric Acid Esters Of Mono- And Diglycerides, Mono- And Diglycerides, Trisodium Citrate, L-Proline, L-Valine, Glycine, L-Isoleucine, N-Acetyl L-Methionine, L-Threonine, L-Histidine, L-Serine, L-Alanine, Potassium Chloride, Magnesium Acetate, Choline Bitartrate, L-Tryptophan, Calcium Chloride, L-Tyrosine, Cellulose Gum, L-Ascorbic Acid, M-Inositol, L-Cystine, Taurine, L-Carnitine, Zinc Sulfate, Dl-Alpha Tocopheryl Acetate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Sodium Selenite, Cupric Sulfate, Riboflavin, Chromium Chloride, Thiamine Chloride Hydrochloride, Vitamin A Palmitate, Pyridoxine Hydrochloride, Folic Acid, Potassium Iodide, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Unflavored also contains less than 2% of: Ferrous Sulfate.

Grape also contains less than 2% of: Artificial Flavors, Sucralose, Ferrous Lactate.

Tropical Fruit also contains less than 2% of: Artificial Flavor, Acesulfame Potassium, Ferrous Lactate.

Orange-Pineapple also contains less than 2% of: Artificial Flavors, Sucralose, Ferrous Lactate.

Vanilla also contains less than 2% of: Artificial Flavors, Sucralose, Ferrous Lactate.

DIRECTIONS FOR PREPARATION AND USE:

- Intake to be determined by a healthcare professional and is dependent on the age, body weight and medical condition of the patient. Intended for use under medical supervision.

Neocate Nutra is a semi-solid medical food and is not for bottle or tube feeding.

- All formulas can be taken orally or tube fed. Not for parenteral use.
  - Neocate Syneo Infant is not recommended for use in infants with a central venous catheter or post-pyloric feeding tube unless directed or supervised by a healthcare professional.
- Do not boil formula or use a microwave to prepare or warm formula.
- If taken orally, formulas for beyond 1 year of age are best served chilled.
- Once formula is prepared or carton is opened, formula should be stored in a refrigerator at 35-40°F (2-4°C) and kept no longer than 24 hours from the time of preparation (time of opening for liquids).
- Shake or stir formula immediately before use.
- **Tube feeding hang time:** Nutricia recommends formula can be safely kept at room temperature for up to **4 hours**, at which time unused formula should be discarded.
- Discard formula left in bottle or cup **1 hour** after feeding starts.
- All scoops should be unpacked and level. Use a scale that measures in grams for the most accurate results. Household measures are not recommended for measuring powdered Nutricia products.

STORAGE:

Cans: Store unopened and opened cans in a cool, dry place. Avoid extreme temperatures. Once opened, use within one month (two weeks for Neocate Syneo Infant).

Packets: Store in a cool, dry place.

Liquids: Store unopened product in a cool, dry place. Once opened, store in a refrigerator and keep no longer than 24 hours. Do not freeze.

Refer to product labels for full preparation instructions

DIRECTIONS FOR PREPARATION AND USE:

PEPTICATE, NEOCATE SYNEO INFANT AND NEOCATE INFANT DHA/ARA

To make a standard dilution (20 cal/fl oz), add 1 unpacked level scoop of powder to each fluid ounce of water.

Only use the scoop provided.

1. Wash hands thoroughly and clean preparation area.
2. Add 1 unpacked level scoop of powder to each 1 fl oz of water.*
3. Cap bottle; shake well. Feed immediately OR refrigerate immediately and use within 24 hours. Once feeding begins, use within 1 hour or discard.

***For Neocate Syneo Infant: Mixing with water warmer than 104°F (40°C) or warming formula above 104°F (40°C) may lessen the benefits of the probiotic cultures. We recommend cooled, boiled water for preparation and the use of sterilized bottles.**

NEOCATE JUNIOR

To make a standard dilution (30 kcal/fl oz), add 1 unpacked, level scoop of powder to each fluid ounce of water.

1. Measure the required amount of warm or cool water into a container.
2. Add the prescribed amount of Neocate Junior to the water.
3. Stir, or cover and shake, until the powder has dissolved.

NEOCATE NUTRA

The suggested serving is 8 scoops (37 g) of powder plus 2 fl oz water to give a spoonable consistency. A smaller serving size can be prepared by adding 1 fl oz of water to 4 scoops of powder (18.5 g). It is recommended that cooled, boiled water be used when preparing the product for infants.

1. Wash hands thoroughly and clean the preparation area.
2. Add the recommended number of scoops of Neocate Nutra to a clean bowl.
3. Gradually add the required amount of water while stirring with a clean spoon. Mix until thickened. To alter the consistency, add more or less water as required.

Neocate Nutra should be prepared immediately prior to feeding. Any prepared product remaining should be discarded if not used within one hour. Neocate Nutra can be added to cooked dishes. Do not add to very hot foods. Do not warm prepared product. Not suitable as a sole source of nutrition. **Not for bottle or tube feeding**.

NEOCATE SPLASH

Shake well before use. Once carton is opened, formula should be stored in a refrigerator at 35-40°F (2-4°C) and kept no longer than 24 hours from the time of opening.

Household Measures

Visit NutriciaLearningCenter.com for the Neocate Mixing Tool and Household Measures Calculator

Measure	Weight	Measure	Weight
Neocate Syneo Infant		**Neocate Infant DHA / ARA and Neocate Nutra**	
1 scoop	4.7 g	1 scoop	4.6 g
1/2 tsp	1.4 g	1/2 tsp	1.3 g
1 tsp	2.7 g	1 tsp	2.6 g
1 Tbsp	8.1 g	1 Tbsp	7.9 g
1/4 cup	32.5 g	1/4 cup	31.5 g
1/3 cup	43.3 g	1/3 cup	42 g
1/2 cup	65.0 g	1/2 cup	63 g
1 cup	130 g	1 cup	126 g
Neocate Junior, Unflavored (without Prebiotics)		**Neocate Junior with Prebiotics, Unflavored**	
1 scoop	7.3 g	1 scoop	7.7 g
1/2 tsp	1.3 g	1/2 tsp	1.3 g
1 tsp	2.5 g	1 tsp	2.7 g
1 Tbsp	7.5 g	1 Tbsp	8.1 g
1/4 cup	30.0 g	1/4 cup	32.3 g
1/3 cup	40.0 g	1/3 cup	43.0 g
1/2 cup	60.0 g	1/2 cup	64.5 g
1 cup	120 g	1 cup	129 g
Neocate Junior, Vanilla, Strawberry, and Tropical		**Neocate Junior, Chocolate**	
1 scoop	7.3 g	1 scoop	7.5 g
1/2 tsp	1.3 g	1/2 tsp	1.3 g
1 tsp	2.5 g	1 tsp	2.6 g
1 Tbsp	7.6 g	1 Tbsp	7.8 g
1/4 cup	30.3 g	1/4 cup	31.3 g
1/3 cup	40.3 g	1/3 cup	41.7 g
1/2 cup	60.5 g	1/2 cup	62.5 g
1 cup	121 g	1 cup	125 g

Household measures are based on standard US, dry household measures.† All measures are level and unpacked. These values are approximations only and have been provided for convenience: results can vary significantly based on the individual, device, and method. Nutricia North America recommends using a gram scale for greatest accuracy. The scoops Nutricia provides are validated for use with Nutricia formulas, so are preferable to household measures.

† US measures: 1 cup = 240 mL; ½ cup = 120 mL; ⅓ cup = 80 mL; ¼ cup = 60 mL; 1 Tbsp = 15 mL; 1 tsp = 5 mL; ½ tsp = 2.5 mL

Volume Prescription

Visit NutriciaLearningCenter.com for the Neocate Mixing Tool, which includes a monthly calculator

Pepticate Infant Formula

	20 kcal/fl oz (# cans/ month)	20 kcal/fl oz (# cases/ month)	22 kcal/fl oz (# cans/ month)	22 kcal/fl oz (# cases/ month)	24 kcal/fl oz (# cans/ month)	24 kcal/fl oz (# cases/ month)	26 kcal/fl oz (# cans/ month)	26 kcal/fl oz (# cases/ month)	28 kcal/fl oz (# cans/ month)	28 kcal/fl oz (# cases/ month)	30 kcal/fl oz (# cans/ month)	30 kcal/fl oz (# cases/ month)
20 fl oz	6	2	7	2	7	2	8	2	9	3	9	3
24 fl oz	7	2	8	2	9	3	10	3	10	3	11	3
28 fl oz	8	2	9	3	10	3	11	3	12	3	13	4
32 fl oz	10	3	11	3	12	3	13	4	14	4	15	4
36 fl oz	11	3	12	3	13	4	14	5	15	4	17	5
40 fl oz	12	3	13	4	15	4	16	4	17	5	18	5
	98 fl oz		89 fl oz		82 fl oz		75 fl oz		70 fl oz		65 fl oz	

Neocate Syneo Infant and Neocate Infant DHA/ARA

Volume/ day	20 kcal/fl oz (# cans/month)		22 kcal/fl oz (# cans/month)		24 kcal/fl oz (# cans/month)		26 kcal/fl oz (# cans/month)		28 kcal/fl oz (# cans/month)		30 kcal/fl oz (# cans/month)	
	Neocate Syneo Infant	Neocate Infant DHA/ARA	Neocate Syneo Infant	Neocate Infant DHA/ARA	Neocate Syneo Infant	Neocate Infant DHA/ARA	Neocate Syneo Infant	Neocate Infant DHA/ARA	Neocate Syneo Infant	Neocate Infant DHA/ARA	Neocate Syneo Infant	Neocate Infant DHA/ARA
20 fl oz	6	6	7	7	8	7	8	8	9	9	9	9
24 fl oz	8	7	8	8	9	9	10	10	11	10	11	11
28 fl oz	9	9	10	10	11	10	11	11	12	12	13	13
32 fl oz	10	10	11	11	12	12	13	13	14	14	15	15
36 fl oz	11	11	13	12	14	13	15	15	16	16	17	17
40 fl oz	13	12	14	14	15	15	16	16	18	17	19	19
Neocate Syneo Infant Total Vol/can	95 fl oz		86 fl oz		79 fl oz		73 fl oz		68 fl oz		63 fl oz	
Neocate Infant DHA/ARA Total Vol/can	97 fl oz		88 fl oz		81 fl oz		74 fl oz		69 fl oz		64 fl oz	

Volume Prescription

Visit **NutriciaLearningCenter.com** for the Neocate Mixing Tool, which includes a monthly calculator

Neocate Nutra				
Servings/day	4 scoops Nutra (88 kcal)		8 scoops Nutra (175 kcal)	
	(# cans/month)	(# cases/month)	(# cans/month)	(# cases/month)
1 Serving	2	1	3	1
2 Servings	3	1	6	2
3 Servings	5	2	9	3
4 Servings	6	2	12	3
Total Servings/can	21 Servings		10 Servings	

Volume/day

	Neocate Junior Unflavored (without prebiotics)		Neocate Junior, all other flavors		Neocate Splash	
	30 kcal/fl oz		30 kcal/fl oz		30 kcal/fl oz	
	(# cans/month)	(# cases/month)	(# cans/month)	(# cases/month)	(# cartons/month)	(# cases/month)
20 oz	10	3	10	3	76	3
24 oz	12	3	12	3	92	4
28 oz	14	4	14	4	107	4
32 oz	16	4	16	4	122	5
36 oz	17	5	18	5	137	6
40 oz	19	5	20	5	152	6

Number of cases per month (30 days) are rounded up to the nearest whole number.

Pepticate Infant Formula

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Dilution Charts

20 kcal/fl oz (Standard dilution)

Volume of Water*		Amount of Pepticate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.0	90	3	13.5	3.3	100
5.0	150	5	22.5	5.6	165
7.0	210	7	31.5	7.8	235
11.0	330	11	49.5	12.2	365
15.0	450	15	67.5	16.7	500
18.0	540	18	81.0	20.0	600
22.0	660	22	99.0	24.4	735
25.0	750	25	113	27.8	835
29.0	870	29	131	32.2	965
31.0	930	31	140	34.4	1035

22 kcal/fl oz

Volume of Water*		Amount of Pepticate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
8	240	9	40.5	9.0	270
10	300	11	49.5	11.2	335
15	450	17	76.5	16.9	505
17	510	19	85.5	19.1	575
20	600	22	99.0	22.4	675
24	720	27	122	27.0	810
28	840	31	140	31.4	945
32	960	36	162	36.0	1080
35	1050	39	176	39.3	1180
40	1200	45	203	45.0	1350

24 kcal/fl oz

Volume of Water*		Amount of Pepticate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4	120	5	22.5	4.6	135
8	240	10	45.0	9.1	275
12	360	15	67.5	13.7	410
16	480	20	90.0	18.2	545
20	600	25	113	22.8	685
24	720	30	135	27.3	820
28	840	35	158	31.9	955
32	960	39	176	36.3	1090
36	1080	44	198	40.9	1225
40	1200	49	221	45.4	1365

26 kcal/fl oz

Volume of Water*		Amount of Pepticate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3	90	4	18.0	3.4	105
6	180	8	36.0	6.9	205
9	270	12	54.0	10.3	310
12	360	16	72.0	13.8	415
15	450	20	90.0	17.2	515
18	540	24	108	20.7	620
21	630	28	126	24.1	725
24	720	32	144	27.6	825
27	810	36	162	31.0	930
30	900	41	185	34.6	1035

28 kcal/fl oz

Volume of Water*		Amount of Pepticate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
11	330	16	72.0	12.8	385
15	450	22	99.0	17.4	525
19	570	28	126	22.1	665
21	630	31	140	24.4	735
23	690	34	153	26.8	805
27	810	40	180	31.4	945
29	870	43	194	33.8	1015
33	990	49	221	38.4	1155
36	1080	53	239	41.9	1255
40	1200	59	266	46.5	1395

30 kcal/fl oz

Volume of Water*		Amount of Pepticate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5	150	8	36.0	5.9	175
10	300	16	72.0	11.8	355
15	450	24	108	17.7	530
20	600	32	144	23.6	705
25	750	40	180	29.4	885
30	900	48	216	35.3	1060
35	1050	56	252	41.2	1235
40	1200	64	288	47.1	1415
45	1350	72	324	53.0	1590
50	1500	80	360	58.9	1765

*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.

†Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 4.5 grams powder and provides 22.14 kcal. 1 gram provides 4.92 kcal and displaces ~0.74 mL water.

Pepticate Infant Formula

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Nutrient Dilution Chart

Nutrients per 100 mL Dilution	20 kcal/fl oz	22 kcal/fl oz	24 kcal/fl oz	26 kcal/fl oz	28 kcal/fl oz	30 kcal/fl oz
Calories	66.7	73.3	80	86.7	93.3	100
Protein Equivalent, g	1.6	1.8	1.9	2.1	2.2	2.4
Fat, g	3.5	3.8	4.2	4.5	4.9	5.2
Carbohydrate, g	7.1	7.8	8.5	9.2	9.9	11.0
Soluble Fiber, g	0.6	0.7	0.7	0.8	0.8	0.8
Linoleic Acid, mg	455	500	546	591	636	680
α-Linolenic Acid, mg	84	92	101	109	117	125
Vitamins						
Vitamin A, IU	263	289	315	342	368	394
Vitamin D_3, IU	76.0	83.5	91.2	98.8	106	114
Vitamin E, IU	2.5	2.7	3.0	3.2	3.5	3.7
Vitamin K, mcg	4.7	5.2	5.6	6.1	6.6	7.0
Thiamine, mcg	50.0	54.9	60.0	65.0	70	75
Riboflavin, mcg	100	110	120	130	140	149
Vitmain B_6, mcg	56.0	61.5	67.2	73	78	83
Vitmain B_{12}, mcg	0.18	0.20	0.22	0.23	0.25	0.27
Niacin, mcg	430	473	516	559	601	640
Folic Acid, mcg	9.0	9.9	10.8	11.7	12.6	13.0
Pantothenic Acid, mcg	331	364	397	430	463	493
Biotin, mcg	2.2	2.4	2.6	2.9	3.1	3.2
Vitamin C, mg	9.1	10.0	10.9	11.8	12.7	14.0
Choline, mg	10	11.0	12.0	13.0	14.0	15.0
Inositol, mg	3.3	3.6	4.0	4.3	4.6	4.9
Minerals						
Calcium, mg	47.0	51.7	56.4	61.1	65.7	70.0
Phosphorus, mg	25.0	27.5	30.0	32.5	35.0	37.0
Magnesium, mg	5.3	5.8	6.4	6.9	7.4	7.9
Iron, mg	0.67	0.7	0.8	0.9	0.9	1.0
Zinc, mg	0.5	0.5	0.6	0.6	0.7	0.75
Manganese, mcg	10.0	11.0	12.0	13.0	14.0	15.0
Cooper mcg	40.0	44.0	48.0	52.0	56.0	60.0
Iodine, mcg	12.0	13.2	14.4	15.6	16.8	18.0
Molybdenum, mcg	≤9.0	≤9.0	≤9.0	≤9.0	≤9.0	≤9.0
Chromium, mcg	≤9.0	≤9.0	≤9.0	≤9.0	≤9.0	≤9.0
Selenium, mcg	1.5	1.6	1.8	1.9	2.1	2.3
Sodium, mg	20.0	22.0	24.0	26.0	28.0	31.0
Potassium, mg	81	89	97	105	113	122
Chloride, mg	40.0	44.0	48.0	52.0	56.0	59.0

Neocate Syneo Infant

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Dilution Charts

20 kcal/fl oz (Standard dilution)

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.0	90	3	14.1	3.3	100
5.0	150	5	23.5	5.5	165
8.0	240	8	37.6	9.0	270
11.0	330	11	51.7	12.2	365
16.0	480	16	75.2	17.8	535
18.0	540	18	84.6	20.0	600
20.0	600	20	94.0	22.2	665
24.0	720	24	112.8	26.7	800
28.0	840	28	131.6	31.1	935
32.0	960	32	150.4	35.6	1065

22 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4.5	135	5	23.5	5.1	150
5.5	165	6	28.2	6.2	185
8.0	240	9	42.3	9.0	270
11.0	330	12	56.4	12.3	370
14.5	435	16	75.2	16.3	490
17.0	510	19	89.3	19.1	575
21.0	630	23	108.1	23.6	705
25.0	750	28	131.6	28.1	845
29.0	870	32	150.4	32.6	975
33.0	990	37	173.9	37.1	1115

24 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
6.5	195	8	37.6	7.4	220
9.0	270	11	51.7	10.2	305
10.5	315	13	61.1	11.9	360
11.5	345	14	65.8	13.1	390
14.0	420	17	79.9	15.9	475
18.0	540	22	103.4	20.4	615
21.0	630	26	122.2	23.9	715
24.0	720	29	136.3	27.2	815
28.0	840	34	159.8	31.8	955
30.0	900	37	173.9	34.1	1025

26 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
1.5	45	2	9.4	1.7	50
3.0	90	4	18.8	3.4	105
6.0	180	8	37.6	6.9	205
9.0	270	12	56.4	10.3	310
14.0	420	19	89.3	16.1	485
17.0	510	23	108.1	19.6	585
21.0	630	28	131.6	24.1	725
24.0	720	32	150.4	27.6	825
28.0	840	37	173.9	32.1	965
32.0	960	43	202.1	36.8	1105

28 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	8	37.6	6.4	190
7.5	225	11	51.7	8.7	260
9.0	270	13	61.1	10.4	315
11.0	330	16	75.2	12.8	385
13.0	390	19	89.3	15.1	455
17.0	510	25	118	19.8	595
20.0	600	29	136	23.2	695
24.0	720	35	165	27.9	835
27.0	810	39	183	31.3	940
32.0	960	47	221	37.2	1115

30 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
2.5	75	4	18.8	2.9	90
5.0	150	8	37.6	5.9	175
9.5	285	15	70.5	11.2	335
11.5	345	18	84.6	13.5	405
14.0	420	22	103.4	16.4	495
17.0	510	27	126.9	20.0	600
20.0	600	32	150.4	23.6	705
24.0	720	38	178.6	28.2	845
28.0	840	44	206.8	32.9	985
32.0	960	51	239.7	37.7	1130

* This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.

† Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 4.7 grams powder and provides 22.33 kcal. 1 gram provides 4.75 kcal and displaces ~0.71 mL water.

Neocate Syneo Infant

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Nutrient Dilution Chart

Nutrients per 100 mL Dilution	20 kcal/fl oz	22 kcal/fl oz	24 kcal/fl oz	26 kcal/fl oz	28 kcal/fl oz	30 kcal/fl oz
Calories	66.7	73.3	80	86.7	93.3	100
Protein Equivalent, g	1.9	2.1	2.3	2.5	2.7	2.8
Fat, g	3.2	3.6	3.9	4.2	4.5	4.8
Carbohydrate, g	7.5	8.3	9.0	9.8	10.5	11.3
Soluble Fiber, g	0.6	0.7	0.8	0.8	0.9	0.9
Linoleic Acid, mg	470	517	564	611	658	705
α-Linolenic Acid, mg	55.6	61.1	66.7	72.3	77.8	83.4
Vitamins						
Vitamin A, IU	190	209	228	247	266	285
Vitamin D_3, IU	49.4	54.3	59.3	64.2	69.2	74.1
Vitamin E, IU	0.9	1.0	1.1	1.2	1.3	1.4
Vitamin K, mcg	6.0	6.6	7.2	7.8	8.4	9.0
Thiamine, mcg	96.8	107	116	126	136	145
Riboflavin, mcg	75.8	83.4	90.9	98.5	106	114
Vitamin B_6, mcg	75.8	83.4	90.9	98.5	106	114
Vitamin B_{12}, mcg	0.2	0.2	0.2	0.2	0.3	0.3
Niacin, mcg	688	756	825	894	963	1032
Folic Acid, mcg	9.0	9.9	10.8	11.7	12.6	13.5
Pantothenic Acid, mcg	407	448	488	529	570	611
Biotin, mcg	2.7	2.9	3.2	3.5	3.7	4.0
Vitamin C, mg	7.2	8.0	8.7	9.4	10.1	10.9
Choline, mg	13.4	14.7	16.1	17.4	18.7	20.1
Inositol, mg	15.2	16.7	18.2	19.7	21.2	22.7
Minerals						
Calcium, mg	77.1	84.8	92.5	100	108	116
Phosphorus, mg	54.5	59.9	65.3	70.8	76.2	81.7
Magnesium, mg	7.0	7.7	8.4	9.1	9.8	10.5
Iron, mg	1.0	1.1	1.2	1.3	1.4	1.5
Zinc, mg	0.7	0.8	0.9	0.9	1.0	1.1
Manganese, mcg	26.7	29.3	32.0	34.7	37.3	40.0
Copper, mcg	56.1	61.8	67.4	73.0	78.6	84.2
Iodine, mcg	13.8	15.1	16.5	17.9	19.3	20.6
Molybdenum, mcg	1.5	1.7	1.9	2.0	2.2	2.3
Chromium, mcg	1.5	1.6	1.8	1.9	2.0	2.2
Selenium, mcg	2.0	2.2	2.4	2.6	2.8	3.0
Sodium, mg	26	28.6	31.2	33.8	36.4	38.9
Potassium, mg	72.3	79.5	86.7	94.0	101	108
Chloride, mg	53.1	58.4	63.7	69.0	74.3	79.6

Neocate Infant DHA / ARA

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Dilution Charts

20 kcal/fl oz (Standard dilution)

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.0	90	3	13.8	3.3	100
5.0	150	5	23.0	5.5	166
7.0	210	7	32.2	7.8	233
11.0	330	11	50.6	12.2	365
15.0	450	15	69.0	16.6	498
18.0	540	18	82.8	19.9	598
22.0	660	22	101.2	24.4	731
25.0	750	25	115.0	27.7	831
29.0	870	29	133.4	32.1	963
31.0	930	31	142.6	34.3	1030

22 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4.5	135	5	23.0	5.0	151
5.5	165	6	27.6	6.1	184
8.0	240	9	41.4	9.0	269
11.0	330	12	55.2	12.3	369
14.5	435	16	73.6	16.2	487
18.0	540	20	92.0	20.1	604
22.0	660	24	110.4	24.6	737
25.5	765	28	128.8	28.5	855
29.0	870	32	147.2	32.4	973
32.5	975	36	165.6	36.4	1091

24 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
2.5	75	3	13.8	2.8	85
5.0	150	6	27.6	5.6	169
6.5	195	8	36.8	7.4	221
10.5	315	13	59.8	11.9	357
14.0	420	17	78.2	15.8	475
18.0	540	22	101.2	20.4	611
21.5	645	26	119.6	24.3	729
24.5	735	30	138	27.7	832
28.5	855	35	161	32.3	968
32.0	960	39	179.4	36.2	1086

26 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.0	90	4	18.4	3.4	103
4.5	135	6	27.6	5.1	154
7.5	225	10	46.0	8.6	257
10.5	315	14	64.4	12.0	360
14.0	420	19	87.4	16.0	481
18.0	540	24	110.4	20.6	617
21.0	630	28	128.8	24.0	720
24.5	735	33	151.8	28.0	841
27.5	825	37	170.2	31.5	944
30.0	900	40	184.0	34.3	1029

28 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	8	36.8	6.4	191
7.5	225	11	50.6	8.7	260
9.0	270	13	59.8	10.4	312
11.0	330	16	73.6	12.7	382
14.5	435	21	96.6	16.8	503
17.0	510	25	115.0	19.7	591
20.5	615	30	138.0	23.7	712
24.0	720	35	161.0	27.8	833
28.0	840	41	188.6	32.4	972
31.5	945	46	211.6	36.4	1093

30 kcal/fl oz

Volume of Water*		Amount of Neocate Powder†		Approximate Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
2.5	75	4	18.4	2.9	88
5.0	150	8	36.8	5.9	176
7.0	210	11	50.6	8.2	245
10.0	300	16	73.6	11.7	352
14.0	420	22	101.2	16.4	491
17.0	510	27	124.2	19.9	597
20.5	615	32	147.2	23.9	718
24.0	720	38	174.8	28.1	842
28.0	840	44	202.4	32.7	982
31.0	930	49	225.4	36.3	1088

* This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.

† Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 4.6 grams powder and provides 22.22 kcal. 1 gram provides 4.83 kcal and displaces ~0.70 mL water.

Neocate Infant DHA / ARA

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Nutrient Dilution Chart

Nutrients per 100 mL Dilution	20 kcal/fl oz	22 kcal/fl oz	24 kcal/fl oz	26 kcal/fl oz	28 kcal/fl oz	30 kcal/fl oz
Calories	66.7	73.3	80.0	86.7	93.3	100
Protein Equivalent, g	1.9	2.0	2.2	2.4	2.6	2.8
Fat, g	3.4	3.7	4.1	4.4	4.7	5.1
Carbohydrate, g	7.2	7.9	8.6	9.3	10.0	10.8
Linoleic Acid, mg	492	541	590	640	689	738
α-Linolenic Acid, mg	57.9	63.7	69.5	75.3	81.0	86.8
Vitamins						
Vitamin A, IU	187	205	224	243	261	280
Vitamin D_3, IU	48.6	53.4	58.3	63.2	68.0	72.9
Vitamin E, IU	0.94	1.0	1.1	1.2	1.3	1.4
Vitamin K, mcg	5.9	6.5	7.0	7.6	8.2	8.8
Thiamine, mcg	95.2	105	114	124	133	143
Riboflavin, mcg	74.5	82.0	89.4	96.9	104	112
Vitamin B_6, mcg	74.5	82.0	89.4	96.9	104	112
Vitamin B_{12}, mcg	0.18	0.2	0.22	0.23	0.25	0.27
Niacin, mcg	676	744	812	879	947	1014
Folic Acid, mcg	8.8	9.7	10.6	11.5	12.4	13.3
Pantothenic Acid, mcg	400	440	480	520	560	600
Biotin, mcg	2.6	2.9	3.1	3.4	3.7	3.9
Vitamin C, mg	7.1	7.8	8.5	9.3	10.0	10.7
Choline, mg	13.2	14.5	15.8	17.1	18.4	19.8
Inositol, mg	14.9	16.4	17.9	19.4	20.9	22.4
Minerals						
Calcium, mg	77.4	85.2	92.9	101	108	116
Phosphorus, mg	54.8	60.3	65.8	71.2	76.7	82.2
Magnesium, mg	7.0	7.7	8.4	9.2	9.9	10.6
Iron, mg	1.0	1.1	1.2	1.3	1.4	1.5
Zinc, mg	0.73	0.8	0.88	0.95	1.0	1.1
Manganese, mcg	27.6	30.4	33.1	35.9	38.6	41.4
Copper, mcg	56.6	62.2	67.9	73.6	79.2	84.9
Iodine, mcg	13.8	15.2	16.6	17.9	19.3	20.7
Molybdenum, mcg	1.6	1.7	1.9	2.0	2.2	2.3
Chromium, mcg	1.5	1.6	1.8	1.9	2.0	2.2
Selenium, mcg	2.0	2.2	2.4	2.6	2.8	3.0
Sodium, mg	26.1	28.7	31.3	33.9	36.5	39.1
Potassium, mg	72.5	79.7	87.0	94.2	101	109
Chloride, mg	53.3	58.6	63.9	69.3	74.6	79.9

Neocate Junior, Unflavored

(without prebiotics)

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Dilution Charts

20 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
8	240	5	36.5	8.8	265
11	330	7	51.1	12.2	365
16	480	10	73.0	17.7	530
22	660	14	102	24.4	730
30	900	19	139	33.2	995

22 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
7	210	5	36.5	7.8	235
10	300	7	51.1	11.2	335
14	420	10	73.0	15.7	470
21	630	15	110	23.5	705
30	900	21	153	33.5	1005

24 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
6.5	195	5	36.5	7.3	220
9	270	7	51.1	10.2	305
14	420	11	80.3	15.8	475
22	660	17	124	24.9	745
28	840	22	161	31.7	950

27 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4.5	135	4	29.2	5.2	155
8	240	7	51.1	9.2	275
10	300	9	65.7	11.5	345
20	600	18	131	23.0	690
28	840	25	183	32.2	965

30 kcal/fl oz (Standard dilution)

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4	120	4	29.2	4.7	140
7	210	7	51.1	8.2	245
10	300	10	73.0	11.7	350
21	630	21	153	24.5	735
28	840	28	204	32.7	980

36 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4	120	5	36.5	4.8	145
6.5	195	8	58.4	7.8	235
10.5	315	13	94.9	12.7	380
20	600	25	183	24.2	725
26	780	32	234	31.4	940

40 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.5	105	5	36.5	4.3	130
7	210	10	73.0	8.7	260
12	360	17	124	14.9	445
19	570	27	197	23.5	705
26	780	37	270	32.2	965

45 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	9	65.7	7.0	210
8.5	255	14	102	10.9	325
11	330	18	131	14.0	420
19	570	31	226	24.2	725
25	750	41	299	31.9	955

*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.
† Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.3 grams powder and provides 35.0 kcal. 1 gram provides 4.79 kcal and displaces ~0.69 mL water.

Neocate Junior, Unflavored (without prebiotics)

Visit NutriciaLearningCenter.com for printable dilution charts and the Neocate Mixing Tool.

Nutrient Dilution Chart

Nutrients per 100 mL Dilution	20 kcal/fl oz	22 kcal/fl oz	24 kcal/fl oz	27 kcal/fl oz	30 kcal/fl oz	36 kcal/fl oz	40 kcal/fl oz	45 kcal/fl oz
Calories	66.7	73.3	80.0	90.0	100	120	133	150
Protein Equivalent, g	2.1	2.3	2.5	2.8	3.1	3.7	4.1	4.6
Carbohydrate, g	7.1	7.8	8.5	9.6	10.7	12.8	14.2	16.0
Fat, g	3.3	3.7	4.0	4.5	5.0	6.0	6.7	7.5
Linoleic Acid, mg	545	599	653	735	818	980	1089	1225
Vitamins								
Vitamin A, IU	133	146	160	180	200	239	266	299
Vitamin D_3, IU	53.0	58.3	63.5	71.5	79.4	95.3	106	119
Vitamin E, IU	1.4	1.5	1.6	1.8	2.0	2.5	2.7	3.1
Vitamin K, mcg	2.7	2.9	3.2	3.6	4.0	4.8	5.3	6.0
Thiamin, mg	0.07	0.07	0.08	0.09	0.10	0.12	0.13	0.15
Riboflavin, mg	0.13	0.15	0.16	0.18	0.20	0.24	0.27	0.30
Vitamin B_6, mg	0.07	0.07	0.08	0.09	0.10	0.12	0.13	0.15
Vitamin B_{12}, mcg	0.26	0.29	0.32	0.36	0.40	0.48	0.53	0.59
Niacin, mg	0.60	0.66	0.72	0.81	0.90	1.1	1.2	1.3
Folic Acid, mcg	19.9	21.9	23.9	26.9	29.9	35.8	39.8	44.8
Pantothenic Acid, mg	0.26	0.29	0.32	0.36	0.40	0.48	0.53	0.59
Biotin, mcg	2.0	2.2	2.4	2.7	3.0	3.6	4.0	4.5
Vitamin C, mg	6.2	6.8	7.4	8.4	9.3	11.2	12.4	14.0
Choline, mg	19.9	21.9	23.9	26.9	29.9	35.8	39.8	44.8
Inositol, mg	14.6	16.1	17.5	19.7	21.9	26.3	29.2	32.9
Minerals								
Calcium, mg	78.6	86.5	94.4	106	118	142	157	177
Phosphorus, mg	53.2	58.5	63.8	71.8	79.7	95.7	106	120
Magnesium, mg	10.6	11.7	12.8	14.4	16.0	19.2	21.3	24.0
Iron, mg	1.0	1.1	1.2	1.4	1.5	1.9	2.1	2.3
Zinc, mg	0.65	0.72	0.78	0.88	0.98	1.2	1.3	1.5
Manganese, mg	0.09	0.09	0.10	0.12	0.13	0.16	0.17	0.19
Copper, mcg	73.8	81.1	88.5	99.6	111	133	148	166
Iodine, mcg	11.9	13.0	14.2	16.0	17.8	21.3	23.7	26.7
Molybdenum, mcg	3.0	3.3	3.6	4.0	4.5	5.4	6.0	6.7
Chromium, mcg	2.5	2.8	3.0	3.4	3.8	4.5	5.0	5.6
Selenium, mg	2.7	2.9	3.2	3.6	4.0	4.8	5.3	6.0
Sodium, mg	33.3	36.6	40.0	45.0	50.0	59.9	66.6	74.9
Potassium, mg	90.9	100	109	123	136	164	182	204
Chloride, mg	50.7	55.8	60.8	68.4	76.1	91.3	101	114

Neocate Junior with Prebiotics, Unflavored

Visit NutriciaLearningCenter.com for printable dilution charts and the Neocate Mixing Tool.

Dilution Charts

20 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
6.5	195	4	30.8	7.3	220
8	240	5	38.5	9.0	270
13	390	8	61.6	14.5	435
21	630	13	100	23.5	705
29	870	18	139	32.4	975

22 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
11.5	345	8	61.6	13.0	390
16	480	11	84.7	18.1	545
19	570	13	100	21.5	645
23	690	16	123	26.0	780
29	870	20	154	32.8	985

24 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4	120	3	23.1	4.6	135
8	240	6	46.2	9.1	275
10.5	315	8	61.6	12.0	360
21	630	16	123	24.0	720
28	840	21	162	32.0	960

27 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.5	105	3	23.1	4.1	120
7	210	6	46.2	8.1	245
10.5	315	9	69.3	12.2	365
21	630	18	139	24.4	735
28	840	24	185	32.6	975

30 kcal/fl oz (Standard dilution)

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4	120	4	30.8	4.7	145
7	210	7	53.9	8.3	250
10	300	10	77.0	11.9	355
21	630	21	162	24.9	750
28	840	27	208	33.1	995

36 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
6.5	195	8	61.6	8.0	240
9	270	11	84.7	11.1	335
13	390	16	123	16.0	480
19	570	23	177	23.4	700
26	780	32	246	32.1	960

40 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5	150	7	53.9	6.3	190
10	300	14	108	12.7	380
15	450	21	162	19.0	570
20	600	28	216	25.3	760
25	750	35	270	31.6	950

45 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
8	240	13	100	10.5	315
10.5	315	17	131	13.7	410
13	390	21	162	17.0	510
19	570	31	239	24.9	745
24	720	39	300	31.4	940

*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.
† Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.7 grams powder and provides 36.3 kcal. 1 gram provides 4.72 kcal and displaces ~0.74 mL water.

Neocate Junior, Vanilla & Strawberry

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Dilution Charts

20 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
11	330	7	51.1	12.2	365
14	420	9	65.7	15.5	465
17	510	11	80.3	18.9	565
22	660	14	102	24.4	730
30	900	19	139	33.2	995

30 kcal/fl oz (Standard dilution)

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4	120	4	29.2	4.7	140
7	210	7	51.1	8.2	245
16	480	16	117	18.7	560
21	630	21	153	24.6	735
28	840	29	212	32.9	990

22 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	4	29.2	6.2	185
8.5	255	6	43.8	9.5	285
14	420	10	73	15.7	470
22	660	16	117	24.7	740
29	870	21	153	32.6	975

36 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	7	51.1	6.7	200
9.5	285	12	87.6	11.5	345
15	450	19	139	18.2	545
22	660	28	204	26.8	805
27	810	34	248	32.8	985

24 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5	150	4	29.2	5.7	170
7.5	225	6	43.8	8.5	255
10	300	8	58.4	11.4	340
20	600	16	117	22.7	680
28	840	22	161	31.7	950

40 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	8	58.4	6.9	205
9	270	13	94.9	11.2	335
13	390	19	139	16.2	485
20	600	29	212	24.9	750
26	780	38	277	32.4	975

27 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	5	36.5	6.4	190
10	300	9	65.7	11.5	345
19	570	17	124	21.9	655
21	630	19	139	24.2	725
28	840	25	183	32.2	970

45 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3	90	5	36.5	3.9	115
6	180	10	73	7.7	230
12	360	20	146	15.4	460
19	570	32	234	24.5	735
25	750	42	307	32.2	965

*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.
† Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.3 grams powder and provides 34.5 kcal. 1 gram provides 4.72 kcal and displaces ~0.70 mL water.

Neocate Junior, Chocolate

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Dilution Charts

20 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
11	330	7	52.5	12.2	365
14	420	9	67.5	15.6	465
17	510	11	82.5	18.9	570
20	600	13	97.5	22.3	670
29	870	19	143	32.3	970

30 kcal/fl oz (Standard dilution)

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4	120	4	30.0	4.7	140
7	210	7	52.5	8.3	245
10	300	10	75.0	11.8	355
21	630	21	158	24.9	740
28	840	29	218	33.1	990

22 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	4	30.0	6.2	185
8.5	255	6	45.0	9.6	285
14	420	10	75.0	15.8	475
21	630	15	113	23.6	710
29	870	21	158	32.7	980

36 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	7	52.5	6.7	200
7	210	9	67.5	8.6	255
11	330	14	105	13.5	405
21	630	27	203	25.7	770
28	840	36	270	34.3	1030

24 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5	150	4	30.0	5.7	170
7.5	225	6	45.0	8.6	255
15	450	12	90.0	17.1	515
20	600	16	120	22.8	685
28	840	22	165	31.9	955

40 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	8	60.0	6.9	205
7.5	225	11	82.5	9.4	285
13	390	19	143	16.3	490
20	600	29	218	25.1	750
26	780	38	285	32.7	980

27 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	5	37.5	6.4	190
10	300	9	67.5	11.6	345
15.5	465	14	105	18.0	540
21	630	19	143	24.3	730
29	870	26	195	33.6	1005

45 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
6.5	195	11	82.5	8.4	255
9.5	285	16	120	12.3	370
16	480	27	203	20.7	620
20	600	34	255	26.0	780
25	750	42	315	32.4	970

*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.
† Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.5 grams powder and provides 34.5 kcal. 1 gram provides 4.60 kcal and displaces ~0.70 mL water.

Neocate Junior, Tropical

Visit **NutriciaLearningCenter.com** for printable dilution charts and the Neocate Mixing Tool.

Dilution Charts

20 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4.5	135	3	21.9	5.0	150
7.5	225	5	36.5	8.3	250
12	360	8	58.4	13.4	400
22	660	15	110	24.5	735
30	900	20	146	33.4	1000

30 kcal/fl oz (Standard dilution)

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4	120	4	29.2	4.7	140
7	210	7	51.1	8.2	245
11	330	11	80.3	12.9	385
21	630	21	153	24.6	735
29	870	31	226	34.2	1025

22 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4	120	3	21.9	4.5	135
8	240	6	43.8	9.0	270
12	360	9	65.7	13.5	405
21	630	16	117	23.7	710
28	840	21	153	31.6	945

36 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3	90	4	29.2	3.7	110
6	180	8	58.4	7.4	220
12	360	16	117	14.7	440
20	600	27	197	24.6	735
26	780	35	256	31.9	960

24 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
6	180	5	36.5	6.8	205
8.5	255	7	51.1	9.7	290
12	360	10	73.0	13.7	410
23	690	19	139	26.2	785
28	840	23	168	31.9	955

40 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
6.5	195	10	73.0	8.2	245
10.5	315	16	117	13.2	395
13	390	20	146	16.4	490
19	570	29	212	23.9	715
26	780	40	292	32.8	985

27 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
8.5	255	8	58.4	9.9	295
10.5	315	10	73.0	12.2	365
16	480	15	110	18.5	555
21	630	20	146	24.4	730
32	960	30	219	37.1	1110

45 kcal/fl oz

Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4.5	135	8	58.4	5.9	175
8.5	255	15	110	11.0	330
13	390	23	168	16.9	505
18	540	32	234	23.4	700
26	780	46	336	33.8	1015

*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.
† Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.3 grams powder and provides 32.9 kcal. 1 gram provides 4.51 kcal and displaces ~0.70 mL water.

Neocate Splash

Concentration Charts – Add Neocate Junior, Unflavored (without prebiotics)

35 kcal/fl oz

Neocate Splash Volume*		Neocate Junior Powder†		Approx. Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5	150	1	7.3	5.2	155
11	330	2	14.6	11.5	340
2 cartons	474	3	21.9	16.5	489
21	630	4	29.2	22.0	650
4 cartons	948	6	43.8	33.1	978

40 kcal/fl oz

Neocate Splash Volume*		Neocate Junior Powder†		Approx. Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	2	14.6	5.9	175
1 carton	237	3	21.9	8.5	252
2 cartons	474	6	43.8	17.1	504
3 cartons	711	9	65.7	25.6	756
4 cartons	948	12	87.6	34.1	1008

45 kcal/fl oz

Neocate Splash Volume*		Neocate Junior Powder†		Approx. Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.5	105	2	14.6	3.9	115
7	210	4	29.2	7.8	230
2 cartons	474	9	65.7	17.6	519
19	570	11	80.3	21.2	625
4 cartons	948	18	131	35.1	1039

Dilution Charts – Add Water

20 kcal/fl oz

Neocate Splash	Volume of water		Approx. Final Volume*	
Cartons	fl oz	mL	fl oz	mL
1	4	120	12	357
2	8	240	24	714
3	12	330	36	1041
4	15	450	47	1398
5	19	570	59	1755

22 kcal/fl oz

Neocate Splash	Volume of water		Approx. Final Volume*	
Cartons	fl oz	mL	fl oz	mL
2	5.5	165	21.5	639
3	8.5	240	32.5	951
4	11	330	43	1278
5	14	405	54	1590
6	17	480	65	1902

24 kcal/fl oz

Neocate Splash	Volume of water		Approx. Final Volume*	
Cartons	fl oz	mL	fl oz	mL
1	2	60	10	297
2	4	120	20	594
3	6	180	30	891
4	7	210	39	1158
5	9	270	49	1455

27 kcal/fl oz

Neocate Splash	Volume of water		Approx. Final Volume*	
Cartons	fl oz	mL	fl oz	mL
2	1.5	45	17.5	519
3	2.5	75	26.5	786
4	3	90	35	1038
5	4	120	44	1305
6	5	150	53	1572

*This chart assumes 1 fl oz = ~29.6 mL. 1 carton = 8 fl oz = 237 mL and standard dilution is 30 kcal/fl oz, or 1 kcal/mL. In recipes that don't call for an even number of Neocate Splash carton and those that call for adding water, mL volumes are rounded to the nearest 15 mL.
†Nutricia North America recommends using a scale for greatest accuracy. Dilutions are more accurate using weighed powder vs. scoops. Scoops should be level and unpacked. 1 level, unpacked scoop yields 7.3 grams powder and provides 35.0 kcal. 1 gram provides 4.79 kcal and displaces ~0.69 mL water.

Pepticate and Neocate Product Samples

This chart represents samples available through your Nutricia Territory Manager.
Neocate Nutra samples and cans of Neocate Junior are not available through online sampling.

www.pepticate.com/hcpsamples
www.neocate.com/shop/request-samples-hcp.aspx

Pepticate™	Neocate® Syneo® Infant	Neocate® Infant DHA/ARA	Neocate® Nutra	Neocate® Junior	Neocate® Splash Unflavored	Neocate® Splash (All Flavors)
Cans (400 g)	**Cans** (400 g)	**Cans** (400 g)	**Sample Packets** (15 x 37 g)	**Cans** (400 g) OR Flavor Trial Kit – An assortment of the Neocate Junior flavors (Each 8 fl oz, prepared)	**Sample Kit** – 3 cartons (3 x 8 fl oz)	**Sample Kit** – An assortment of the flavored Neocate Splash formulas (4 x 8 fl oz)

All samples include nutrition information, ingredients, and preparation and storage instructions.

Update on Monitoring Micronutrients

Serum levels of micronutrients, particularly phosphorus, should be routinely monitored by clinicians when Neocate is used as a primary or sole source of nutrition for patients with complex systemic disease involving multiple diagnoses and intestinal disease, especially in combination with tube feeding and/or a history of prematurity. Neocate** formulas are intended for use under medical supervision.*

** A retrospective review identified case studies of patients on primary or sole source nutrition with diagnoses covering multiple systems, including congenital gastrointestinal anomalies and GI surgeries (such as necrotizing enterocolitis, esophageal atresia, tracheoesophageal fistula); neurological conditions (such as seizures, intraventricular hemorrhage, hydrocephalus); respiratory (lung disease, tracheostomy, aspiration); cardiac (congenital heart disease); and other systemic conditions, often in conjunction with tube feeding and/or a history of prematurity.*

*** Neocate is an amino acid-based formula for dietary management of cow milk allergy, multiple food protein allergies, and related GI and allergic conditions for which an amino acid-based diet is indicated.*

CHALLENGED GROWTH

NLC™
NUTRICIA LEARNING CENTER

Find more information and resources on these and all of our products at **www.NutriciaLearningCenter.com**

Fortini™ Infant

The first and only ready-to-feed, 30 kcal/fl oz formula specially calibrated for term infants with or at risk of growth failure, increased energy requirements and/or fluid restrictions.

Visit **Fortini.com** to learn more

Main Features:

- Nutritionally complete
- 30 kcal/fl oz (1 kcal/mL)
- Sterile liquid in 4 fl oz (118 mL) cartons for oral and tube feeding
- 2.6 g protein per 100 kcal: casein 40%, whey 60%
- Supports catch-up growth[1,2]
- Well tolerated in infants with growth failure[1,2]
- Prebiotic fiber to help support gut health[3,4]
- Osmolality: 360 mOsm/kg H_2O
- Free water: 85%
- Potential renal solute load: 223 mOsm/L
- Energy distribution:
  - Protein 10.3% (In expert-recommended range for catch-up growth[5])
  - Carbohydrate 41.6%
  - Fat (MCT 24%/ LCT 76%) 48.1%

Backed by 7 clinical studies, 20 years of trusted use, and available in over 30 countries

Indications:

For term infants from 0 to 18 months of age or up to 19.8 lbs (9 kg) with or at risk of growth failure, increased energy requirements and/or fluid restrictions due to conditions such as:

- Congenital heart disease
- Chronic lung disease
- Respiratory syncytial virus
- Neurological syndrome or neuro-disabilities
- Cystic fibrosis
- Non-organic failure to thrive

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Carton
161212	49735011212	B4160	30 x 4 fl oz (30 x 118 mL)	118

WIC[1]: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

1. Clarke SE, et al. J Hum Nutr Diet. 2007;20:329-39. 2. Eveleens RD, et al. J Hum Nutr Diet. 2019;32:3-10. 3. Veereman-Wauters, et al. J Pediatr Gastroenterol Nutr. 2011;52:763-71. 4. Knol, et al. J Pediatr Gastroenterol Nutr. 2005;40:36-42. 5. World Health Organization; Food and Agriculture Organization of the United Nations. Protein and amino acid requirements in human nutrition. 2007.

Nutrition Information:

Nutrients	Per 100 Calories (100 mL)	Per Carton (4 fl oz/118 mL)
Calories	100	118
Protein, g	2.6	3.0
Fat, g	5.4	6.3
Linoleic Acid, mg	790	934
a-Linolenic Acid, mg	141	167
DHA, mg	17.8	21.1
ARA, mg	17.8	21.1
Carbohydrate, g	10.1	12.0
Soluble Fiber, g	0.57	0.67
Water, g	85	100
Vitamins		
Vitamin A, IU (mcg RE)	253 (76.0)	299 (89.7)
Vitamin D, IU (mcg)	76.0 (1.9)	89.9 (2.2)
Vitamin E, IU (mg α-TE)	3.1 (2.1)	3.7 (2.5)
Vitamin K, mcg	8.5	10.1
Thiamine, mcg	150	177
Riboflavin, mcg	200	237
Vitamin B_6, mcg	110	130
Vitamin B_{12}, mcg	0.30	0.35
Niacin, mcg	530	630
Folic acid, mcg	16.0	18.9
Pantothenic acid, mcg	800	946
Biotin, mcg	4.0	4.7
Vitamin C, mg	14.0	16.6
Choline, mg	23.0	27.2
Inositol, mg	25.0	29.6

Minerals	Per 100 Calories (100 mL)	Per Carton (4 fl oz/118 mL)
Calcium, mg (mmol) [mEq]	100 (2.5) [5.0]	118 (2.9) [5.9]
Phosphorus, mg (mmol)	50.0 (1.6)	59.1 (1.9)
Magnesium, mg (mmol) [mEq]	10.7 (0.44) [0.89]	12.7 (0.52) [1.0]
Iron, mg	1.6	1.9
Zinc, mg	0.70	0.83
Manganese, mcg	16.0	18.9
Copper, mcg	65.0	76.9
Iodine, mcg	20.1	23.8
Molybdenum, mcg	<8.0	<9.5
Chromium, mcg	<8.0	<9.5
Selenium, mcg	2.9	3.4
Sodium, mg (mmol, mEq)	37.0 (1.6)	43.8 (1.9)
Potassium, mg (mmol, mEq)	95.0 (2.4)	112 (2.9)
Chloride, mg (mmol, mEq)	62.0 (1.7)	73.3 (2.1)

Access an easy, online DRI calculator at **bit.ly/Fortini_DRI**

Ingredients:

Water, Nonfat Milk, Maltodextrin, Refined Vegetable Oils (Canola, Modified Coconut, High Oleic Sunflower, Sunflower, and Corn Oils), Lactose, and less than 2% of each of the following: Galacto-oligosaccharides (GOS), Whey Protein, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Anhydrous Milk Fat, Citric Acid Esters of Mono- and Diglycerides (CITREM), Calcium Citrate, Fructooligosaccharides (FOS), Potassium Citrate, Calcium Phosphate, Sodium Chloride, Citric Acid, *C. cohnii* Oil*, Inositol, *M. alpina* Oil**, Sodium L-Ascorbate, Choline Chloride, Magnesium Carbonate, Calcium Hydroxide, Potassium Hydroxide, Ferrous Lactate, Taurine, Dipotassium Hydrogen Phosphate, Nucleotides (Cytidine 5'-Monophosphate, Adenosine 5'-Monophosphate, Disodium Uridine 5'-Monophosphate, Disodium Inosine 5'-Monophosphate, Disodium Guanosine 5'-Monophosphate), DL-Alpha Tocopheryl Acetate, L-Carnitine, Zinc Sulfate, Calcium D-Pantothenate, Niacin, Soy Lecithin, Copper Gluconate, Thiamine Hydrochloride, Potassium Iodide, Riboflavin, Pyridoxine Hydrochloride, Vitamin A Acetate, Manganese Sulfate, Folic Acid, Phylloquinone, D-Biotin, Sodium Selenite, Cholecalciferol, Cyanocobalamin.

Contains: Milk, Soy

*A source of Docosahexaenoic Acid (DHA)

**A source of Arachidonic Acid (ARA)

DIRECTIONS FOR PREPARATION AND USE:

Use only under medical supervision. For oral and tube feeding only; not for parenteral use. For infants and young children up to 18 months of age or up to 19.8 lbs (9 kg) with or at risk of growth failure, increased energy requirements and/or fluid restrictions. Clinicians should regularly monitor for adequate nutrient and fluid status by reviewing nutrient intake and needs, anthropometry, tolerance, and micronutrient status.

Storage before opening: Store in a cool, dry place. Do not freeze. Avoid excessive heat and prolonged exposure to light.

DIRECTIONS FOR PREPARATION:

1. Wash hands thoroughly and clean preparation area.
2. Sterilize feeding bottle* and ensure top of carton is clean.
3. Shake well before use.
4. The formula should be decanted into a sterilized formula bottle.*
   If the infant is being tube fed, the formula can be decanted into a sterilized feeding bag.
5. Cap bottle. Feed immediately. Discard unfinished feeds after use.

*Nutricia directs caregivers to ask the baby's healthcare team if they need to boil (sterilize) bottles and nipples before use.

Do not boil or use a microwave to warm formula; serious burns may result. Formula must not be re-warmed during feeding.

Storage after opening: Opened individual cartons can be kept in the fridge for maximum 24 hours.

Tube feeding: 4-hour hang time based on using a single-use sterile bag every feeding and not warming formula for tube feeding.

WHAT TO EXPECT:

- Fortini Infant can be started at full strength from day 1 for most infants, and is as well tolerated as standard (20 kcal/fl oz) infant formula.
- Infants less than 12 weeks of age may benefit from a graded introduction to Fortini Infant over three days. See following pages.
- You might notice some changes in stool frequency and consistency and a slight increase in gas as babies adjust to the prebiotic fiber in Fortini Infant. That's normal, and should only last a few days.

TO SUPPLEMENT:

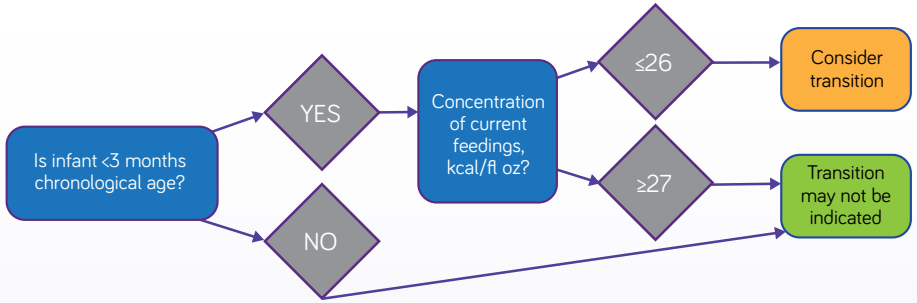
- **Nutricia supports the use of breast milk wherever possible:** Fortini Infant can supplement breast milk to add calories and protein for catch-up growth in minimal formula volume to preserve gastric volume for breast milk. See following pages.

Number of cartons	Volume		Energy	Free water volume	
1	118 mL	4 fl oz	118 kcal	100 mL	3.4 fl oz
2	236 mL	8 fl oz	236 kcal	201 mL	6.8 fl oz
3	354 mL	12 fl oz	354 kcal	301 mL	10.2 fl oz
4	472 mL	16 fl oz	472 kcal	401 mL	13.6 fl oz
5	590 mL	20 fl oz	590 kcal	502 mL	17.0 fl oz
6	708 mL	24 fl oz	708 kcal	602 mL	20.4 fl oz
7	826 mL	28 fl oz	826 kcal	702 mL	23.7 fl oz
8	944 mL	32 fl oz	944 kcal	802 mL	27.1 fl oz
9	1062 mL	36 fl oz	1062 kcal	903 mL	30.5 fl oz
10	1180 mL	40 fl oz	1180 kcal	1003 mL	33.9 fl oz

Volumes of Fortini Infant that provide ≥100% of DRIs:	
0-6 months	590 mL (5 cartons)*
7-12 months	750 mL (6⅓ cartons)†
12-18 months	880 mL (7½ cartons)‡

RDAs should not guide energy or protein goals in critically ill infants.
*Provides ≥100% Adequate Intake (AI) for all nutrients.
†Provides ≥100% AI except carbohydrate 80%, manganese 20%, sodium 75%, potassium 82%, chloride 81%.
‡Provides ≥100% 1-3-year DRI except carbohydrate 69%§, fiber 37%, niacin 78%§, phosphorus 96%§, manganese 12%, sodium 41%, potassium 42%, chloride 36%. §=Recommended Dietary Allowance, otherwise AI.

WHEN TO CONSIDER A GRADED TRANSITION TO FORTINI INFANT:



CONSIDER ONE OF THESE METHODS TO TRANSITION TO FORTINI INFANT, WHEN INDICATED:

		Method 1: Fade by replacing feedings	Method 2: Fade by blending
Day 1	Original formula or breast milk	3 feedings	75%
	Fortini Infant	**Remainder**	**25%**
Day 2	Original formula or breast milk	2 feedings	50%
	Fortini Infant	**Remainder**	**50%**
Day 3	Original formula or breast milk	1 feeding	25%
	Fortini Infant	**Remainder**	**75%**
Day 4	All feedings 100% **Fortini Infant**		

Visit FortiniUS.com for printable versions of this and other resources.

Method 2:
Fade by blending in the bottle

Start by mixing a small amount of Fortini Infant with original formula or breast milk in a clean bottle.

- If the original formula is a powder, mix it separately following the directions on the can, before combining with Fortini Infant.
- If the baby is taking breast milk, give the expressed milk in a bottle (be sure the baby is comfortable with a bottle first).
- Over a period of days, gradually increase the ratio of Fortini Infant to the original formula in the bottle.

RATIOS OF BREAST MILK TO SUPPLEMENTAL FORTINI INFANT, IN FEEDINGS OR FLUID OUNCES:

Ratio of feedings		Characteristics, if blended	Volume Breast Milk	Volume Fortini Infant		Approximate Final Volume and Calories	
4:1		**22 kcal/fl oz**	4 fl oz	1 fl oz	-	5 fl oz (148 mL)	110 kcal
Breast milk	**Fortini Infant**	0.73 kcal/mL Protein +~0.4 g/100 mL*	8 fl oz	2 fl oz	½ carton	10 fl oz (295 mL)	219 kcal
			16 fl oz	4 fl oz	1 carton	20 fl oz (591 mL)	438 kcal
3:2		**24 kcal/fl oz**	3 fl oz	2 fl oz	½ carton	5 fl oz (148 mL)	119 kcal
Breast milk	**Fortini Infant**	0.80 kcal/mL Protein +~0.7 g/100 mL*	6 fl oz	4 fl oz	1 carton	10 fl oz (295 mL)	238 kcal
			12 fl oz	8 fl oz	2 cartons	20 fl oz (592 mL)	477 kcal
2:3		**26 kcal/fl oz**	2.5 fl oz	4 fl oz	1 carton	6.5 fl oz (192 mL)	168 kcal
Breast milk	**Fortini Infant**	0.87 kcal/mL Protein +~1.0 g/100 mL*	5 fl oz	8 fl oz	2 cartons	13 fl oz (385 mL)	337 kcal
			8 fl oz	12 fl oz	3 cartons	20 fl oz (591 mL)	515 kcal
~1:2		**27 kcal/fl oz**	2.5 fl oz	6 fl oz	1 ½ cartons	8.5 fl oz (251 mL)	230 kcal
Breast milk	**Fortini Infant**	0.90 kcal/mL Protein +~1.1 g/100 mL*	3.5 fl oz	8 fl oz	2 cartons	11.5 fl oz (340 mL)	307 kcal
			5 fl oz	12 fl oz	3 cartons	17 fl oz (503 mL)	455 kcal
1:4		**28 kcal/fl oz**	1 fl oz	4 fl oz	1 carton	5 fl oz (148 mL)	138 kcal
Breast milk	**Fortini Infant**	0.93 kcal/mL Protein +~1.3 g/100 mL*	2 fl oz	8 fl oz	2 cartons	10 fl oz (295 mL)	277 kcal
			5 fl oz	20 fl oz	5 cartons	25 fl oz (739 mL)	691 kcal

* Fortini Infant contains 2.6 g protein/100 mL. Add number shown ("+~X.X") to a value for protein content of human milk (__ g/100 mL) to estimate increased protein with added Fortini Infant. Assumes protein content in mature human milk of 1.1 g/100 mL.

Nutricia North America supports the use of breast milk wherever possible.

Visit FortiniUS.com for printable versions of this and other resources.

DANIELLE,
Diagnosed with
Homocystinuria (HCU)

METABOLICS

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Find the most current product information at **NutriciaMetabolics.com.**
For more resources and tools, visit **NutriciaLearningCenter.com.**

PKU Periflex® Early Years

A phenylalanine-free powdered infant formula with iron, for the dietary management of phenylketonuria (PKU). Contains DHA and ARA, and a unique blend of prebiotics.

Main Features:

- Phenylalanine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H_2O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
90164	49735-0101-64	B4162	6 x 400 g (14.1 oz)	1892

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	473	350
Protein Equivalent,g	13.5	10.0
Fat, g	23.0	17.0
Saturated, g	7.5	5.6
Monounsaturated, g	9.4	7.0
Polyunsaturated, g	5.0	3.7
DHA, mg	70.0	51.9
ARA, mg	140	104
Linoleic Acid,mg	3500	2593
Carbohydrate, g	53.0	39.3
Fiber, g	5.3	3.9
GOS, g	4.7	3.5
FOS, g	0.55	0.41
Amino Acids, g		
L-Alanine	0.62	0.46
L-Arginine	1.09	0.81
L-Aspartic Acid	1.02	0.76
L-Cystine	0.41	0.30
L-Glutamine	1.28	0.95
Glycine	0.96	0.71
L-Histidine	0.63	0.47
L-Isoleucine	0.96	0.71
L-Leucine	1.65	1.22
L-Lysine	1.11	0.82
L-Methionine	0.26	0.19
L-Phenylalanine	Nil Added	Nil Added
L-Proline	1.10	0.81
L-Serine	0.72	0.53
L-Threonine	0.81	0.60
L-Tryptophan	0.31	0.23
L-Tyrosine	1.44	1.07
L-Valine	1.05	0.78
L-Carnitine	0.01	0.01
Taurine	0.02	0.01

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1305(392)	967(290)
Vitamin D3, IU (mcg)	348(8.7)	258(6.4)
Vitamin E, IU (mg α-TE)	10.9 (7.3)	8.1 (5.4)
Vitamin K, mcg	38.0	28.1
Thiamine, mcg	500	370
Riboflavin, mcg	500	370
Vitamin B6, mcg	500	370
Vitamin B12, mcg	1.2	0.89
Niacin, mcg	2200	1630
Folic Acid, mcg	55.0	40.7
Pantothenic Acid, mcg	2800	2074
Biotin, mcg	18.2	13.5
Vitamin C, mg	49.0	36.3
Choline, mg	91.0	67.4
Inositol, mg	98.0	72.6
Minerals		
Calcium, mg	371	275
Phosphorus, mg	270	200
Magnesium, mg	52.5	38.9
Iron, mg	7.3	5.4
Zinc, mg	5.2	3.9
Manganese, mcg	390	289
Copper, mcg	390	289
Iodine, mcg	82.5	61.1
Molybdenum, mcg	10.9	8.1
Chromium, mcg	12.5	9.3
Selenium, mcg	14.1	10.4
Sodium, mg	171	127
Potassium, mg	454	336
Chloride, mg	321	238

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) (Milk), L-Arginine L-Aspartate, L-Leucine, L-Lysine Acetate, L-Tyrosine, L-Glutamine, L-Proline, Tricalcium Phosphate, L-Valine, Citric Acid Esters of Mono- and Diglycerides (CITREM), Glycine, L-Isoleucine, L-Threonine, L-Serine, L-Histidine, L-Alanine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, Sodium Phosphate Dibasic, L-Cystine, *M. alpina* Oil*, L-Tryptophan, Choline Bitartrate, L-Methionine, Magnesium Acetate, Magnesium Aspartate, *C. cohnii* Oil**, Sodium Chloride, M-Inositol, L-Ascorbic Acid, Ferrous Sulfate, Taurine, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy Oil, Coconut Oil, Milk.

* A source of Arachidonic Acid (ARA)
** A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL

PKU Periflex® Junior Plus

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in children over 1 year of age.

Main Features:

- Phenylalanine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- Provides 28 g of protein equivalent and 12.5 g of fat per 100 g of powder
- Available in Plain, Vanilla, Berry and Orange flavors
- Osmolality (at 1.1 kcal/mL): 1340 mOsm/kg H_2O based on dilution of 36 g powder (approx 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
89477 - Plain	49735-0194-77	B4162	6 x 400 g (14.1 oz)	1540
89478 - Vanilla	49735-0194-78	B4162	6 x 400 g (14.1 oz)	1508
89474 - Berry	49735-0194-74	B4162	6 x 400 g (14.1 oz)	1508
89476 - Orange	49735-0194-76	B4162	6 x 400 g (14.1 oz)	1508

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories (flavors)	385 (377)	138 (135)
Protein Equivalent, g	28	10
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g (flavors)	43.2 (41.2)	15.4 (14.7)
Fiber, g	11.2	4.0
Soluble	8.0	2.9
Insoluble	3.2	1.1
Amino Acids, g		
L-Alanine	4.76	1.70
L-Arginine	1.74	0.62
L-Aspartic Acid	0.42	0.15
L-Cystine	1.90	0.68
L-Glutamine	3.36	1.20
Glycine	4.59	1.64
L-Histidine	0.70	0.25
L-Isoleucine	1.40	0.50
L-Leucine	2.24	0.80
L-Lysine	1.85	0.66
L-Methionine	0.73	0.26
L-Phenylalanine	Nil Added	Nil Added
L-Proline	2.24	0.80
L-Serine	1.20	0.43
L-Threonine	2.52	0.90
L-Tryptophan	0.42	0.15
L-Tyrosine	2.66	0.95
L-Valine	1.68	0.60
L-Carnitine	0.02	0.01
Taurine	0.05	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1399 (420)	500 (150)
Vitamin D_3, IU (mcg)	840 (21.0)	300 (7.5)
Vitamin E, IU (mg α-TE)	12.5 (8.4)	4.5 (3.0)
Vitamin K, mcg	14.0	5.0
Thiamine, mg	0.93	0.33
Riboflavin, mg	0.73	0.26
Vitamin B_6, mg	0.73	0.26
Vitamin B_{12}, mcg	1.3	0.46
Niacin, mg	2.0	0.71
Folic Acid, mcg	210	75.0
Pantothenic Acid, mg	4.2	1.5
Biotin, mcg	11.2	4.0
Vitamin C, mg	42.0	15.0
Choline, mg	224	80.0
Inositol, mg	56.0	20.0
Minerals		
Calcium, mg	980	350
Phosphorus, mg	641	229
Magnesium, mg	113	40.4
Iron, mg	10.0	3.6
Zinc, mg	4.9	1.8
Manganese, mg	0.92	0.33
Copper, mcg	560	200
Iodine, mcg	139	49.6
Molybdenum, mcg	25.5	9.1
Chromium, mcg	10.2	3.6
Selenium, mcg	28.2	10.1
Sodium, mg	280	100
Potassium, mg	445	159
Chloride, mg	406	145

Ingredients:

Plain: Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Alanine, Glycine, Fructo-oligosaccharides, L-Glutamine, Inulin, Corn Starch, L-Tyrosine, Calcium Phosphate Dibasic, L-Lysine Acetate, L-Threonine, Microcrystalline Cellulose, L-Leucine, L-Proline, Artificial Flavor, Gum Arabic, L-Cystine, L-Arginine, L-Valine, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, L-Serine, Calcium Chloride, L-Methionine, L-Histidine, Maltodextrin, Choline Bitartrate, Magnesium Hydrogen Phosphate, Magnesium L-Aspartate, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil*, L-Tryptophan, Tricalcium Citrate, L-Ascorbic Acid, Soy Fiber, M-Inositol, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-Alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin.

Contains: Soy, Coconut Oil.

Vanilla: Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Alanine, Glycine, Fructo-oligosaccharides, L-Glutamine, Inulin, Corn Starch, L-Tyrosine, Calcium Phosphate Dibasic, L-Lysine Acetate, L-Threonine, Microcrystalline Cellulose, L-Leucine, L-Proline, Artificial Flavor, Gum Arabic, L-Cystine, L-Arginine, L-Valine, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, L-Serine, Calcium Chloride, L-Methionine, L-Histidine, Maltodextrin, Choline Bitartrate, Magnesium Hydrogen Phosphate, Magnesium L-Aspartate, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil*, L-Tryptophan, Tricalcium Citrate, L-Ascorbic Acid, Soy Fiber, M-Inositol, Taurine, Sucralose, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-Alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin.

Contains: Soy, Coconut Oil.

*A source of Docosahexaenoic Acid (DHA)

For the ingredient lists of the remaining flavors, please see the end of this section.

Periflex® Advance

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements
- Provides 3.5 g of protein equivalent and 12.6 g of fat per 100 g of powder
- Meets protein requirements in lower volume when compared to Periflex Junior Plus
- Pleasant taste, smell and texture
- Available in Unflavored and Orange flavor
- Osmolality (mOsm/kg H_2O):

Dilution	Unflavored	Orange
1 to 5	830	890
1 to 4	1060	1100

- Displacement: 0.6 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
49835 - Unflavored	49735-0183-05	B4157 or B4162	6 x 454 g (1 lb)	1748
49837 - Orange	49735-0183-07	B4157 or B4162	6 x 454 g (1 lb)	1675

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories (Orange)	385 (369)	110 (105)
Protein Equivalent, g	35	10
Fat, g	12.6	3.6
Saturated, g	1.4	0.40
Monounsaturated, g	7.9	2.3
Polyunsaturated, g	2.7	0.77
Linoleic Acid, mg	2064	590
α-Linolenic Acid, mg	535	153
Carbohydrate, g (Orange)	33 (29)	9.4 (8.3)
Amino Acids, g		
L-Alanine	1.4	0.40
L-Arginine	2.6	0.74
L-Aspartic Acid	2.5	0.71
L-Cystine	0.96	0.27
L-Glutamine	4.3	1.23
Glycine	2.5	0.71
L-Histidine	1.5	0.43
L-Isoleucine	2.4	0.69
L-Leucine	4.0	1.14
L-Lysine	3.1	0.89
L-Methionine	0.64	0.18
L-Phenylalanine	Nil Added	Nil Added
L-Proline	2.8	0.80
L-Serine	1.8	0.51
L-Threonine	1.9	0.54
L-Tryptophan	0.78	0.22
L-Tyrosine	3.5	1.00
L-Valine	2.5	0.71
L-Carnitine	0.03	0.01
Taurine	0.12	0.03

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1951(586)	557 (167)
Vitamin D_3, IU (mcg)	292 (7.3)	83.4 (2.1)
Vitamin E, IU (mg α-TE)	16.2 (10.9)	4.6 (3.1)
Vitamin K, mcg	71.8	20.5
Thiamine, mg	0.80	0.23
Riboflavin, mg	0.85	0.24
Vitamin B_6, mg	1.4	0.40
Vitamin B_{12}, mcg	2.7	0.77
Niacin, mg	5	1.4
Folic Acid, mcg	430	123
Pantothenic Acid, mg	4.3	1.2
Biotin, mcg	21.4	6.1
Vitamin C, mg	54.3	15.5
Choline, mg	376	107
Inositol, mg	70	20
Minerals		
Calcium, mg	1035	296
Phosphorus, mg	995	284
Magnesium, mg	268	76.6
Iron, mg	12.9	3.7
Zinc, mg	7.9	2.3
Manganese, mg	1.6	0.46
Copper, mcg	720	206
Iodine, mcg	115	32.9
Molybdenum, mcg	32.4	9.3
Chromium, mcg	22.8	6.5
Selenium, mcg	50.8	14.5
Sodium, mg	490	140
Potassium, mg	613	175
Chloride, mg	490	140

Ingredients:

Orange: Corn Syrup Solids, High Oleic Safflower Oil, Canola Oil, L-Lysine, L-Aspartate, L-Glutamine, L-Leucine, L-Tyrosine, Artificial Flavors, Citric Acid, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, Tricalcium Phosphate, contains 2% or less of the following: Tricalcium Citrate, L-Serine, Disodium Hydrogen Phosphate, L-Histidine, L-Alanine, Guar Gum, Xanthan Gum, Potassium Chloride, Choline Hydrogen Tartrate, L-Cystine, L-Tryptophan, Sugar, L-Methionine, Fractionated Coconut Oil, L-Lysine Acetate, Citric Acid Esters Of Mono- And Diglycerides (CITREM), Tripotassium Citrate, Sucralose, Beet Juice Concentrate (For Color), Beta-Carotene (For Color), Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.
Contains: Coconut Oil.

Unflavored: Corn Syrup Solids, High Oleic Safflower Oil, Canola Oil, L-Lysine, L-Aspartate, L-Glutamine, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, Tricalcium Citrate, contains 2% or less of the following: Tricalcium Phosphate, L-Serine, Disodium Hydrogen Phosphate, L-Histidine, L-Alanine, Potassium Chloride, Choline Hydrogen Tartrate, L-Cystine, L-Tryptophan, Sugar, L-Methionine, Fractionated Coconut Oil, L-Lysine Acetate, Citric Acid Esters Of Mono- And Diglycerides (CITREM), Tripotassium Citrate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.
Contains: Coconut Oil.

Periflex® LQ

A phenylalanine-free, ready-to-drink medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine free
- Contains a balanced mixture of other amino acids, carbohydrate, vitamins and minerals
- No measuring or mixing
- Provides 15 g of protein equivalent and 5 g of fat per carton
- Available in Orange Crème and Berry Crème flavors
- Osmolality (at 0.64 kcal/mL):
  Orange Crème 1080 mOsm/kg H_2O
  Berry Crème 1030 mOsm/kg H_2O
- Free water: 84%

Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Carton
113359 - Orange Crème	49735-0125-51	B4162 or B4157	18 x 250 mL (8.5 fl oz)	160
113358 - Berry Crème	49735-0125-24	B4162 or B4157	18 x 250 mL (8.5 fl oz)	160

WIC†: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 250 mL	Per 10 g Protein Equivalent
Calories	160	107
Protein Equivalent, g	15	10
Fat, g	5.0	3.3
Saturated, g	0.75	0.5
Monounsaturated, g	3.0	2.0
Polyunsaturated, g	1.0	0.67
Carbohydrate, g	13.8	9.2
Fiber, g	1.0	0.67
Amino Acids, g		
L-Alanine	0.68	0.45
L-Arginine	1.28	0.85
L-Aspartic Acid	1.20	0.80
L-Cystine	0.48	0.32
L-Glutamine	Nil Added	Nil Added
Glycine	1.23	0.82
L-Histidine	0.73	0.49
L-Isoleucine	1.13	0.75
L-Leucine	1.95	1.30
L-Lysine	1.50	1.00
L-Methionine	0.33	0.22
L-Phenylalanine	Nil Added	Nil Added
L-Proline	1.38	0.92
L-Serine	0.85	0.57
L-Threonine	0.95	0.63
L-Tryptophan	0.38	0.25
L-Tyrosine	1.73	1.15
L-Valine	1.25	0.83
L-Carnitine	0.01	0.01
Taurine	0.08	0.05

Vitamins	Per 250 mL	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	833 (250)	555 (167)
Vitamin D_3, IU (mcg)	130 (3.3)	87 (2.2)
Vitamin E, IU (mg α-TE)	7.0 (4.8)	4.7 (3.2)
Vitamin K, mcg	30.8	20.5
Thiamine, mg	0.35	0.23
Riboflavin, mg	0.38	0.25
Vitamin B_6, mg	0.60	0.40
Vitamin B_{12}, mcg	1.2	0.80
Niacin, mg	2.1	1.4
Folic Acid, mcg	184	123
Pantothenic Acid, mg	1.9	1.3
Biotin, mcg	9.3	6.2
Vitamin C, mg	23.3	15.5
Choline, mg	161	107
Inositol, mg	30	20
Minerals		
Calcium, mg	400	267
Phosphorus, mg	288	192
Magnesium, mg	114	76.0
Iron, mg	5.5	3.7
Zinc, mg	3.5	2.3
Manganese, mg	0.7	0.47
Copper, mcg	310	207
Iodine, mcg	49.0	32.7
Molybdenum, mcg	14.0	9.3
Chromium, mcg	9.8	6.5
Selenium, mcg	21.8	14.5
Sodium, mg	210	140
Potassium, mg	263	175
Chloride, mg	210	140

Ingredients:

Orange Crème: Water, Sugar, and contains 2% or less of the following: Calcium Glycerophosphate, High Oleic Sunflower Oil, L-Lysine Acetate, Canola Oil, L-Leucine, L-Tyrosine, Artificial Flavor, L-Proline, L-Arginine, L-Valine, Glycine, L-Aspartic Acid, L-Isoleucine, Microcrystalline Cellulose, Citric Acid, L-Threonine, L-Serine, Magnesium Acetate, Tripotassium Citrate, L-Histidine, L-Alanine, L-Cystine, Choline Hydrogen Tartrate, N-Acetyl-L-Methionine, Sodium Chloride, L-Tryptophan, Trisodium Citrate, Soybean Oil, L-Ascorbic Acid, Diacetyl Tartaric Acid Esters of Monoglycerides, Mono- and Diglycerides, Guar Gum, Xanthan Gum, Acesulfame Potassium, Taurine, M-Inositol, Ferrous Sulfate, Tricalcium Phosphate, Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Cholecalciferol, Folic Acid, Cyanocobalamin.

Contains: Soybean Oil.

Berry Crème: Water, Sugar, and contains 2% or less of the following: Calcium Glycerophosphate, High Oleic Sunflower Oil, L-Lysine Acetate, Canola Oil, L-Leucine, L-Tyrosine, Artificial Flavor, L-Proline, L-Arginine, L-Valine, Glycine, L-Aspartic Acid, L-Isoleucine, Microcrystalline Cellulose, Citric Acid, L-Threonine, L-Serine, Magnesium Acetate, Tripotassium Citrate, L-Histidine, L-Alanine, L-Cystine, Choline Hydrogen Tartrate, N-Acetyl-L-Methionine, Sodium Chloride, L-Tryptophan, Trisodium Citrate, Soybean Oil, L-Ascorbic Acid, Diacetyl Tartaric Acid Esters of Monoglycerides, Mono- and Diglycerides, Guar Gum, Xanthan Gum, Acesulfame Potassium, Taurine, M-Inositol, Ferrous Sulfate, Tricalcium Phosphate, Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Cholecalciferol, Folic Acid, Cyanocobalamin.

Contains: Soybean Oil.

PhenylAde® GMP Drink Mix

A powdered medical food, low in phenylalanine, providing protein from glycomacropeptide (GMP) and amino acids with other nutrients for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age.

Main Features:

- Low in phenylalanine
- Complete with essential vitamins and minerals
- Contains a source of DHA
- 1.5 grams of soluble fiber per each 10 g PE serving
- Provides 30 g of protein equivalent and approx. 12 g of fat per 100 g of powder
- Available in Vanilla and Plain flavors
- Available in pouches and cans
- Osmolality based on dilution of 33.3 g powder to 5 fl oz (150 mL) water: 389 mOsm/kg H2O
- Displacement: 0.9 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can/Pouch
CANS				
114098 - Vanilla	49735-0168-32	B4157 or B4162	4 x 400 g (14.1 oz)	1416
182486 - Plain	49735-0100-75	B4157 or B4162	4 x 375 g (13.2 oz)	1328
POUCHES				
114099- Vanilla	49735-0183-04	B4157 or B4162	16 x 33.3 g (1.2 oz)	118
114116 - Plain	49735-0141-16	B4157 or B4162	16 x 33.3 g (1.2 oz)	118

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Calories	354	118
Protein Equivalent, g	30.0	10.0
Phenylalanine, mg	54	18
Fat, g	9.4	3.1
Saturated, g	4.0	1.3
Monounsaturated, g	3.5	1.2
Polyunsaturated, g	1.7	0.58
DHA, mg	130	43.3
Carbohydrate, g	39.6	13.2
Fiber, g	4.5	1.5
Amino Acids, g		
L-Alanine	1.33	0.44
L-Arginine	1.42	0.47
L-Aspartic acid	1.89	0.63
L-Cystine	0.93	0.31
L-Glutamic acid	4.14	1.38
L-Glycine	2.24	0.75
L-Histidine	1.47	0.49
L-Isoleucine	2.27	0.76
L-Leucine	2.34	0.78
L-Lysine	1.33	0.44
L-Methionine	0.44	0.15
L-Phenylalanine	0.054	0.018
L-Proline	2.57	0.86
L-Serine	1.63	0.54
L-Threonine	3.68	1.23
L-Tryptophan	0.71	0.24
L-Tyrosine	3.69	1.23
L-Valine	1.83	0.61
L-Carnitine	0.04	0.01
Taurine	0.09	0.03

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Vitamin A, IU (mcg RE)	2040 (765)	680 (255)
Vitamin D_3, IU (mcg)	900 (22.5)	300 (7.5)
Vitamin E, IU (mg α-TE)	22.8 (15.2)	7.6 (5.1)
Vitamin K, mcg	72.0	24.0
Thiamine, mg	1.4	0.47
Riboflavin, mg	1.8	0.60
Vitamin B_6, mg	1.7	0.56
Vitamin B_{12}, mcg	3.6	1.2
Niacin, mg	15.0	5.0
Folic Acid, mcg	360	120
Pantothenic Acid, mg	4.8	1.6
Biotin, mcg	36.0	12.0
Vitamin C, mg	72.0	24.0
Choline, mg	300	100
Inositol, mg	60.0	20.0
Minerals		
Calcium, mg	1050	350
Phosphorus, mg	945	315
Magnesium, mg	252	84.0
Iron, mg	13.2	4.4
Zinc, mg	10.2	3.4
Manganese, mg	1.6	0.52
Copper, mcg	1200	400
Iodine, mcg	135	45.0
Molybdenum, mcg	54.0	18.0
Chromium, mcg	36.0	12.0
Selenium, mcg	48.0	16.0
Sodium, mg	564	188
Potassium, mg	1047	349
Chloride, mg	570	190

Ingredients:

Plain: Glycomacropeptide (Milk), Maltodextrin, Corn Syrup Solids, Refined Vegetable Oils (Canola Oil, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), High Oleic Sunflower Oil, Sunflower Oil), Dextrin, L-Tyrosine, Tricalcium Phosphate, Glycine, Magnesium Phosphate, L-Leucine, L-Histidine, L-Arginine, DHA Powder (Corn Syrup Solids, *C. Cohnii* Oil*, Modified Corn Starch, Mannitol, High Oleic Sunflower Oil, Sodium Ascorbate, Mono- and Diglycerides, Sodium Polyphosphate, Tricalcium Phosphate, Natural Flavors, Mixed Tocopherols, Sunflower Lecithin, Ascorbyl Palmitate), Sugar, Potassium Chloride, L-Cystine, Choline Bitartrate, Dicalcium Phosphate, L-Tryptophan, Citric Acid Esters of Mono- and Diglycerides (CITREM), Potassium Citrate, Silicon Dioxide, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Vitamin E Acetate, Ferrous Sulfate, L-Carnitine, Sunflower Lecithin, Niacinamide, Zinc Oxide, Vitamin D_3, Copper Gluconate, Vitamin A Palmitate, Calcium D-Pantothenate, Manganese Sulfate, D-Biotin, Beta-Carotene, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Vitamin K_1, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

Contains: Milk.

Vanilla: Glycomacropeptide (Milk), Corn Syrup Solids, Sugar, Refined Vegetable Oils (Medium Chain Triglycerides (Coconut and/or Palm Kernel), High Oleic Sunflower, Canola, Sunflower), Dextrin, L-Tyrosine, Tricalcium Phosphate, Glycine, Natural and Artificial Flavors, Magnesium Phosphate, L-Leucine, L-Histidine, L-Arginine, DHA Powder (Corn Syrup Solids, *C. Cohnii* Oil*, Modified Corn Starch, Mannitol, High Oleic Sunflower Oil, Sodium Ascorbate, Mono- and Diglycerides, Sodium Polyphosphate, Tricalcium Phosphate, Natural Flavors, Mixed Tocopherols, Sunflower Lecithin, Ascorbyl Palmitate), Potassium Chloride, L-Cystine, Maltodextrin, Choline Bitartrate, Dicalcium Phosphate, L-Tryptophan, Citric Acid Esters of Mono- and Diglycerides (CITREM), Potassium Citrate, Silicon Dioxide, Sodium Chloride, Ascorbyl Palmitate, Mixed Tocopherols, Ascorbic Acid, Taurine, Inositol, Vitamin E Acetate, Ferrous Sulfate, L-Carnitine, Sunflower Lecithin, Niacinamide, Zinc Oxide, Vitamin D_3, Copper Gluconate, Vitamin A Palmitate, Calcium D-Pantothenate, Manganese Sulfate, D-Biotin, Beta-Carotene, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Vitamin K_1, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

Contains: Milk.

*A source of docosahexaenoic acid (DHA)

Contains 18 mg of phenylalanine per 10 g protein equivalent.

PhenylAde® GMP READY

A ready-to-drink medical food, low in phenylalanine providing protein from glycomacropeptide (GMP) and amino acids for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age.

Main Features:

- Low in phenylalanine
- Complete with essential vitamins and minerals
- Contains a source of DHA & EPA
- No measuring or mixing
- Provides 10 g of protein equivalent and 4 g of fat per 250 mL carton
- Available in Plain (neutral) flavor
- Osmolality (at 0.73 kcal/mL): 460 mOsm/kg H_2O
- Free water: 93%

Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Carton
139686	49735-0196-86	B4157 or B4162	18 x 8.5 fl oz (250 mL)	110

WIC†: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 8.5 fl oz/ 250 mL
Calories	110
Protein Equivalent, g	10
Phenylalanine, mg	18
Fat, g	4.0
Saturated, g	0.40
Trans, g	0
Monounsaturated, g	2.4
Polyunsaturated, g	1.2
DHA, mg	60.0
EPA, mg	15.0
Carbohydrate, g	8.5
Fiber, g	0.93
Sugars, g	7.5
Amino Acids, g	
L-Alanine	0.40
L-Arginine	0.49
L-Aspartic acid	0.59
L-Cystine	0.29
L-Glutamic acid	1.3
Glycine	0.07
L-Histidine	0.40
L-Isoleucine	0.72
L-Leucine	1.5
L-Lysine	0.43
L-Methionine	0.13
L-Phenylalanine	0.02
L-Proline	0.79
L-Serine	0.51
L-Threonine	1.1
L-Tryptophan	0.24
L-Tyrosine	1.0
L-Valine	0.87
L-Carnitine	0.01
Taurine	0.03

Vitamins	Per 8.5 fl oz/ 250 mL
Vitamin A, IU (mcg RE)	665 (200)
Vitamin D_3, IU (mcg)	250 (6.3)
Vitamin E, IU (mg α-TE)	5.0 (3.3)
Vitamin K, mcg	17.5
Thiamine, mg	0.40
Riboflavin, mg	0.40
Vitamin B_6, mg	0.35
Vitamin B_{12}, mcg	0.70
Niacin, mg	3.5
Folic Acid, mcg	50.0
Pantothenic Acid, mg	1.3
Biotin, mcg	7.8
Vitamin C, mg	15.5
Choline, mg	93.8
Inositol, mg	20.3
Minerals	
Calcium, mg	325
Phosphorus, mg	275
Magnesium, mg	58.5
Iron, mg	3.0
Zinc, mg	2.2
Manganese, mg	0.23
Copper, mcg	250
Iodine, mcg	36.5
Molybdenum, mcg	12.5
Chromium, mcg	7.5
Selenium, mcg	12.5
Sodium, mg	146
Potassium, mg	185
Chloride, mg	100

Ingredients:

Water, Glycomacropeptide (Milk), Sugar, Refined Vegetable Oils (Canola Oil, High Oleic Sunflower Oil), L-Leucine, Calcium Glycerophosphate, L-Tyrosine, Maltodextrin, Cellulose Gum, Calcium Phosphate Dibasic, L-Arginine, Magnesium Acetate, L-Histidine, L-Valine, L-Cystine, Choline Bitartrate, Artificial Flavor, L-Tryptophan, Potassium Chloride, Calcium Lactate, Microcrystalline Cellulose, *C. cohnii* Oil **, Citric Acid Esters Of Mono- And Diglycerides (CITREM), Sodium Chloride, L-Ascorbic Acid, *Schizochytrium sp.* Oil†, Taurine, M-Inositol, Sucralose, Ferrous Lactate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Copper Gluconate, Calcium D-Pantothenate, Manganese Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Palmitate, Mixed Tocopherols, Sunflower Lecithin, Potassium Iodide, Folic Acid, Ascorbyl Palmitate, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Cholecalciferol, Cyanocobalamin.

Contains: Milk.

** A source of docosahexaenoic acid (DHA)

† A source of docosahexaenoic acid (DHA) and eicosapentaenoic acid (EPA)

Contains 18 mg of phenylalanine per 10 g protein equivalent

PhenylAde® GMP ULTRA

A powdered medical food, low in phenylalanine, providing protein from glycomacropeptide (GMP) and amino acids with other nutrients for the dietary management of phenylketonuria (PKU) in individuals over 3 years of age.

Main Features:

- Low in phenylalanine
- A low-volume, lower-calorie option
- Provides 20 g of protein equivalent (PE) per pouch
- Complete with essential vitamins and minerals
- Available in Lemonade and Vanilla flavors
- Osmolality based on dilution of 33.4 g powder (1 pouch) to 6 fl oz (180 mL) water:
  - Vanilla: 500 mOsm/kg H_2O
  - Lemonade: 530 mOsm/kg H_2O
- Displacement: 0.64 mL/g

Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Pouch
160056 - Vanilla	49735-0100-56	B4162 or B4157	16 x 33.4 g (1.2 oz)	107
160058 - Lemonade	49735-0100-58	B4162 or B4157	16 x 33.4 g (1.2 oz)	98

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 20 g Protein Equivalent (1 pouch)
Calories (Lemonade)	320 (295)	107 (98)
Protein Equivalent, g	60	20
Phenylalanine, mg	108	36
Fat, g (Lemonade)	2.2 (0.19)	0.72 (0.06)
Carbohydrate, g (Lemonade)	15.2 (13.4)	5.1 (4.5)
Sugars, g (Lemonade)	7.9 (8.3)	2.6 (2.8)
Amino Acids, g		
L-Alanine	2.4	0.80
L-Arginine	2.9	0.96
L-Asparagine	3.6	1.2
L-Cystine	1.8	0.60
L-Glutamic Acid	8.4	2.8
Glycine	0.48	0.16
L-Histidine	2.4	0.80
L-Isoleucine	4.4	1.5
L-Leucine	9.0	3.0
L-Lysine	2.6	0.86
L-Methionine	0.78	0.26
L-Phenylalanine	0.108	0.036
L-Proline	4.8	1.6
L-Serine	3.0	1.0
L-Threonine	6.6	2.2
L-Tryptophan	1.5	0.50
L-Tyrosine	6.0	2.0
L-Valine	5.3	1.8
L-Carnitine	0.09	0.03
Taurine	0.18	0.06

Vitamins	Per 100 g	Per 20 g Protein Equivalent (1 pouch)
Vitamin A, IU (mcg RE)	2448 (920)	816 (307)
Vitamin D_3, IU (mcg)	1080 (27.0)	360 (9.0)
Vitamin E, IU (mg α-TE)	27.6 (18.4)	9.2 (6.1)
Vitamin K, mcg	86.4	28.8
Thiamine, mg	2.2	0.73
Riboflavin, mg	2.2	0.72
Vitamin B_6, mg	2.0	0.68
Vitamin B_{12}, mcg	4.3	1.4
Niacin, mg	18.0	6.0
Folic Acid, mcg	240	80.0
Dietary Folate Equivalents, mcg	400	133
Pantothenic Acid, mg	6.0	2.0
Biotin, mcg	43.2	14.4
Vitamin C, mg	86.4	28.8
Choline, mg	360	120
Inositol, mg	71.3	23.8
Minerals		
Calcium, mg	1318	439
Phosphorus, mg	1287	429
Magnesium, mg	315	105
Iron, mg	16.2	5.4
Zinc, mg	12.6	4.2
Manganese, mg	0.92	0.31
Copper, mcg	1478	493
Iodine, mcg	171	57.0
Molybdenum, mcg	66.6	22.2
Chromium, mcg	46.8	15.6
Selenium, mcg	66.6	22.2
Sodium, mg	1006	335
Potassium, mg	1428	476
Chloride, mg	720	240

Ingredients:

Vanilla: Glycomacropeptide (Milk), L-Leucine, Sugar, L-Tyrosine, Maltodextrin, L-Arginine, Magnesium Hydrogen Phosphate, L-Histidine, Artificial Flavors, Tricalcium Phosphate, Refined Vegetable Oils (Medium Chain Triglycerides [Coconut and/or Palm kernel], High Oleic Sunflower, Canola, Sunflower), L-Valine, L-Cystine, L-Tryptophan, Dicalcium Phosphate, Potassium Chloride, Choline Bitartrate, Calcium Carbonate, Potassium Citrate, Sodium Chloride, Silicon Dioxide, Taurine, L-Ascorbic Acid, L-Carnitine, Citric Acid Esters of Mono- and Diglycerides (CITREM), Inositol, Ferrous Sulfate, Sucralose, DL-Alpha Tocopheryl Acetate, Nicotinamide, Zinc Oxide, Copper Gluconate, Calcium D-Pantothenate, Sunflower Lecithin, Thiamine Hydrochloride, Manganese Sulfate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Palmitate, Sodium Selenite, Beta-Carotene, Ascorbyl Palmitate, Sodium Molybdate, Potassium Iodide, Chromium Chloride, Folic Acid, Vitamin K_1, D-Biotin, Cholecalciferol, Vitamin B_{12}.

Contains: Milk.

Lemonade: Glycomacropeptide (Milk), L-Leucine, Sugar, L-Tyrosine, Citric Acid, L-Arginine, Natural Flavor, Magnesium Hydrogen Phosphate, L-Histidine, Tricalcium Phosphate, L-Valine, L-Cystine, Corn Syrup Solids, L-Tryptophan, Dicalcium Phosphate, Potassium Chloride, Maltodextrin, Choline Bitartrate, Calcium Carbonate, Potassium Citrate, Sodium Chloride, Silicon Dioxide, Taurine, L-Ascorbic Acid, Sucralose, L-Carnitine, Inositol, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Zinc Oxide, Copper Gluconate, Calcium D-Pantothenate, Thiamine Hydrochloride, Manganese Sulfate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Palmitate, Sodium Selenite, Beta-Carotene, Sodium Molybdate, Potassium Iodide, Chromium Chloride, Folic Acid, Vitamin K_1, D-Biotin, Cholecalciferol, Cyanocobalamin.

Contains: Milk.

Contains 36 mg of phenylalanine per 20 g protein equivalent

PhenylAde® GMP Mix-In

A powdered medical food, low in phenylalanine providing protein from glycomacropeptide (GMP) and amino acids for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age.

Main Features:

- Low in phenylalanine
- A flexible and concentrated source of GMP-based protein
- Provides 80 g of protein equivalent per 100 g of powder
- Mixes easily with water, flavored drinks or other PKU formula
- Available in cans and pouches
- Displacement: 0.4 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can/Pouch
CAN				
135426	49735-0154-26	B4155	4 x 200 g (28.2 oz)	670
POUCHES				
116130	49735-0111-61	B4155	20 x 12.5 g (0.44 oz)	42

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Calories	335	42
Protein Equivalent, g	80	10
Phenylalanine, mg	144	18
Fat, g	0.07	0.01
Carbohydrate, g	3.5	0.44
Amino Acids, g		
L-Alanine	3.21	0.40
L-Arginine	3.91	0.49
L-Aspartic acid	4.72	0.59
L-Cystine	2.43	0.30
L-Glutamic acid	10.77	1.35
Glycine	5.91	0.74
L-Histidine	4.00	0.50
L-Isoleucine	5.76	0.72
L-Leucine	6.36	0.80
L-Lysine	3.42	0.43
L-Methionine	1.06	0.13
L-Phenylalanine	0.144	0.018
L-Proline	6.13	0.77
L-Serine	4.07	0.51
L-Threonine	9.01	1.13
L-Tryptophan	1.92	0.24
L-Tyrosine	9.89	1.24
L-Valine	4.54	0.57
L-Carnitine	0.08	0.01
Taurine	0.32	0.04

Minerals	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Calcium, mg	39.0	4.9
Phosphorus, mg	320	40.0
Potassium, mg	1160	145
Sodium, mg	1129	141

Ingredients:

Glycomacropeptide (Milk), L-Tyrosine, Glycine, L-Leucine, L-Histidine, L-Arginine, Corn Syrup Solids, L-Cystine, contains 2% or less of the following: L-Tryptophan, Silicon Dioxide, Taurine, L-Carnitine.

Contains: Milk.

Contains 18 mg of phenylalanine per 10 g protein equivalent

Note: Must be combined with an appropriate vitamin & mineral supplement when taken as the sole source of PKU medical food.

PhenylAde® Essential Drink Mix

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- 1.5 grams of soluble fiber per serving
- Provides 25 g of protein equivalent and 13 g of fat per 100 g of powder
- Available in Unflavored, Chocolate, Vanilla, Orange Creme, and Strawberry flavors
- Osmolality (at 0.65 kcal/mL): 800 mOsm/kg H_2O based on dilution of 40 g powder (1 scoop) to 7 fl oz (210 mL) water
- Displacement: 0.75 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
119868 - Chocolate	00847-0950-12	B4157 or B4162	4 x 454 g (1 lb)	1607
119869 - Vanilla	00847-0950-22	B4157 or B4162	4 x 454 g (1 lb)	1607
119870 - Orange Creme	00847-0950-32	B4157 or B4162	4 x 454 g (1 lb)	1607
119871 - Strawberry	00847-0950-42	B4157 or B4162	4 x 454 g (1 lb)	1607
119879 - Unflavored	00847-0950-82	B4157 or B4162	4 x 454 g (1 lb)	1607

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	354	142
Protein Equivalent, g	25	10
Fat, g	10	4
Saturated, g	4.4	1.8
Monounsaturated, g	3.7	1.5
Polyunsaturated, g	1.8	0.70
Linoleic Acid, mg	1600	640
α-Linolenic Acid, mg	389	156
Carbohydrate, g	43	17
Fiber, g	3.9	1.5
Amino Acids, g		
L-Alanine	2.32	0.93
L-Arginine	1.97	0.79
L-Asparagine	3.49	1.40
L-Cystine	0.34	0.14
L-Glutamine	3.89	1.56
Glycine	1.52	0.61
L-Histidine	0.63	0.25
L-Isoleucine	1.04	0.42
L-Leucine	2.24	0.90
L-Lysine	1.82	0.73
L-Methionine	0.61	0.24
L-Phenylalanine	Nil Added	Nil Added
L-Proline	1.52	0.61
L-Serine	2.24	0.90
L-Threonine	1.15	0.46
L-Tryptophan	0.58	0.23
L-Tyrosine	2.69	1.08
L-Valine	1.7	0.67
L-Carnitine	0.04	0.01
Taurine	0.08	0.03

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	1700 (637)	680 (255)
Vitamin D_3, IU (mcg)	600 (15)	240 (6)
Vitamin E, IU (mg α-TE)	19 (12.7)	7.6 (5.1)
Vitamin K, mcg	61	24
Thiamine, mg	1.5	0.6
Riboflavin, mg	1.5	0.6
Vitamin B_6, mg	1.4	0.56
Vitamin B_{12}, mcg	3.0	1.2
Niacin, mg	17	6.8
Folic Acid, mcg	300	120
Pantothenic Acid, mg	4	1.6
Biotin, mcg	30	12
Vitamin C, mg	60	24
Choline, mg	210	84
Inositol, mg	50	20
Minerals		
Calcium, mg	677	271
Phosphorus, mg	788	315
Magnesium, mg	210	84
Iron, mg	11	4.4
Zinc, mg	10	4
Manganese, mg	1.3	0.52
Copper, mcg	1000	400
Iodine, mcg	100	40
Molybdenum, mcg	45	18
Chromium, mcg	30	12
Selenium, mcg	40	16
Sodium, mg	418	167
Potassium, mg	872	349
Chloride, mg	475	190

Ingredients:

Unflavored: Corn Syrup Solids, Maltodextrin, Dextrin, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), L-Tyrosine, High Oleic Sunflower Oil, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, Calcium Phosphate, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Citric Acid Esters of Mono- and Diglycerides (CITREM), Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon Dioxide, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, Niacinamide, Ascorbyl Palmitate, Zinc Oxide, Copper Gluconate, Vitamin K_1, Vitamin D_3, Vitamin A Palmitate, Calcium D-Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Mononitrate, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

Chocolate: Maltodextrin, Sugar, Dextrin, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), L-Tyrosine, High Oleic Sunflower Oil, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, Natural and Artificial Flavors, L-Arginine, Calcium Phosphate, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Citric Acid Esters of Mono- and Diglycerides (CITREM), Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon Dioxide, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, FD&C Red #40, FD&C Yellow #5, FD&C Blue #2, Niacinamide, Ascorbyl Palmitate, Zinc Oxide, Copper Gluconate, Vitamin K_1, Vitamin D_3, Vitamin A Palmitate, Calcium D-Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Mononitrate, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

Vanilla: Corn Syrup Solids, Maltodextrin, Dextrin, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), Natural and Artificial Flavors, L-Tyrosine, High Oleic Sunflower Oil, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, Calcium Phosphate, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Citric Acid Esters of Mono- and Diglycerides (CITREM), Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon Dioxide, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, Niacinamide, Ascorbyl Palmitate, Zinc Oxide, Copper Gluconate, Vitamin K_1, Vitamin D_3, Vitamin A Palmitate, Calcium D-Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Mononitrate, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

For the ingredient lists of the remaining flavors, please see the end of this section.

PhenylAde® 60 Drink Mix

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age.

Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- Only 50 calories per serving
- Provides 60 g of protein equivalent and <1 g of fat per 100 g of powder
- Available in Unflavored and Vanilla flavor
- Osmolality (at 0.49 kcal/mL): 1256 mOsm/kg H_2O based on dilution of 16.7 g powder (1 scoop) to 3 fl oz (90 mL) water
- Displacement: 0.54 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
119852 - Unflavored	00847-0956-02	B4157 or B4162	4 x 454 g (1 lb)	1348
119853 - Vanilla	00847-0956-22	B4157 or B4162	4 x 454 g (1 lb)	1348

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	297	50
Protein Equivalent, g	60	10
Fat, g	0.88	0.15
Saturated, g	0.23	0.04
Carbohydrate, g	12.3	2.1
Amino Acids, g		
L-Alanine	5.56	0.93
L-Arginine	4.72	0.79
L-Asparagine	8.36	1.39
L-Cystine	0.81	0.13
L-Glutamine	9.31	1.55
Glycine	3.63	0.61
L-Histidine	1.51	0.25
L-Isoleucine	2.49	0.42
L-Leucine	5.37	0.90
L-Lysine	4.36	0.73
L-Methionine	1.45	0.24
L-Phenylalanine	Nil Added	Nil Added
L-Proline	3.63	0.61
L-Serine	5.37	0.90
L-Threonine	2.76	0.46
L-Tryptophan	1.38	0.23
L-Tyrosine	6.45	1.08
L-Valine	4.01	0.67
L-Carnitine	0.09	0.01
Taurine	0.18	0.03

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	2331 (874)	389 (146)
Vitamin D_3, IU (mcg)	520 (13)	87 (2.2)
Vitamin E, IU (mg α-TE)	23 (15.4)	3.8 (2.6)
Vitamin K, mcg	90	15
Thiamine, mg	2.1	0.35
Riboflavin, mg	1.9	0.32
Vitamin B_6, mg	2.3	0.38
Vitamin B_{12}, mcg	4.2	0.7
Niacin, mg	25	4.1
Folic Acid, mcg	700	117
Pantothenic Acid, mg	8.7	1.5
Biotin, mcg	53	8.8
Vitamin C. mg	113	19
Choline, mg	425	71
Inositol, mg	129	22
Minerals		
Calcium, mg	1300	217
Phosphorus, mg	1194	199
Magnesium, mg	310	52
Iron, mg	18	3
Zinc, mg	12	2
Manganese, mg	2.7	0.45
Copper, mcg	1300	217
Iodine, mcg	180	30
Molybdenum, mcg	60	10
Chromium, mcg	40	6.7
Selenium, mcg	83	14
Sodium, mg	600	100
Potassium, mg	1162	194
Chloride, mg	900	150

Ingredients:

Unflavored: L-Asparagine Monohydrate, L-Glutamine, Sugar, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Proline, Corn Syrup Solids, L-Threonine, L-Isoleucine, Magnesium Phosphate. Contains 2% or less of the following: Sodium Citrate, L-Histidine, L-Methionine, L-Tryptophan, Dipotassium Phosphate, Potassium Chloride, Choline Bitartrate, Soy Lecithin, L-Cystine, Sodium Chloride, Silicon Dioxide, Taurine, Ascorbic Acid, Inositol, L-Carnitine, Ferric Orthophosphate, Vitamin E Acetate, Zinc Sulfate, Niacinamide, Sucralose, Calcium D-Pantothenate, Vitamin K_1, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D_3, Beta-Carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

Contains: Soy.

Vanilla: L-Asparagine Monohydrate, L-Glutamine, Sugar, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Proline, L-Threonine, Natural and Artificial Flavors, L-Isoleucine, Magnesium Phosphate. Contains 2% or less of the following: Sodium Citrate, L-Histidine, L-Methionine, L-Tryptophan, Dipotassium Phosphate, Potassium Chloride, Choline Bitartrate, Soy Lecithin, L-Cystine, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Silicon Dioxide, L-Carnitine, Ferric Orthophosphate, Sucralose, Vitamin E Acetate, Zinc Sulfate, Niacinamide, Calcium D-Pantothenate, Vitamin K_1, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D_3, Beta-Carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

Contains: Soy.

PhenylAde® Amino Acid Blends

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine free
- Only 40 calories per serving
- Available in cans and pouches

MTE Amino Acid Blend

- Contains added calcium, phosphorus, magnesium, chromium, molybdenum, and selenium
- 100 g of powder provides 78 g of protein equivalent
- Displacement: 0.47 mL/g

Amino Acid Blend

- 100 g of powder provides 81 g of protein equivalent
- Displacement: 0.48 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can/Pouch
CANS				
127422	00847-0950-00	B4155	4 x 454 g (1 lb)	1466
120448 - MTE	00847-0959-60	B4155	4 x 454 g (1 lb)	1421
POUCHES				
119862 - MTE	00847-0959-64	B4155	30 x 12.8 g (0.45 oz)	40

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Amino Acid Blend

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	323	40
Protein Equivalent, g	81	10
Fat, g	0	0
Carbohydrate, g	0	0
Amino Acids, g		
L-Alanine	7.46	0.93
L-Arginine	6.33	0.79
L-Asparagine	11.22	1.40
L-Cystine	1.08	0.14
L-Glutamine	12.50	1.55
Glycine	4.87	0.61
L-Histidine	2.03	0.25
L-Isoleucine	3.34	0.42
L-Leucine	7.20	0.90
L-Lysine	5.84	0.73
L-Methionine	1.95	0.24
L-Phenylalanine	Nil Added	Nil Added
L-Proline	4.87	0.61
L-Serine	7.20	0.90
L-Threonine	3.70	0.46
L-Tryptophan	1.85	0.23
L-Tyrosine	8.65	1.08
L-Valine	5.38	0.67
L-Carnitine	0.12	0.01
Taurine	0.24	0.03

MTE Amino Acid Blend

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Calories	312	40
Protein Equivalent, g	78	10
Fat, g	0	0
Carbohydrate, g	0	0
Amino Acids, g		
L-Alanine	7.23	0.93
L-Arginine	6.13	0.79
L-Asparagine	10.87	1.40
L-Cystine	1.05	0.14
L-Glutamine	12.11	1.55
Glycine	4.72	0.61
L-Histidine	1.96	0.25
L-Isoleucine	3.24	0.42
L-Leucine	6.98	0.90
L-Lysine	5.67	0.73
L-Methionine	1.89	0.24
L-Phenylalanine	Nil Added	Nil Added
L-Proline	4.72	0.61
L-Serine	6.98	0.90
L-Threonine	3.59	0.46
L-Tryptophan	1.79	0.23
L-Tyrosine	8.39	1.08
L-Valine	5.22	0.67
L-Carnitine	0.11	0.01
Taurine	0.24	0.03
Minerals		
Calcium, mg	570	73
Chloride, mg	<0.25	<0.25
Chromium, mcg	23	3.0
Magnesium, mg	123	15.8
Molybdenum, mcg	23	3.0
Phosphorus, mg	570	73
Sodium, mg	<5.0	<0.5
Selenium, mcg	26	3.3

Ingredients:

Amino Acid Blend:
L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Glycine, L-Proline, L-Threonine, L-Isoleucine, L-Histidine, L-Methionine, L-Tryptophan, L-Cystine, Silicon Dioxide, Taurine, L-Carnitine.

MTE Amino Acid Blend:
L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Glycine, L-Proline, L-Threonine, L-Isoleucine, Dicalcium Phosphate, L-Histidine, L-Methionine, L-Tryptophan, L-Cystine, Magnesium Phosphate (Dibasic), Silicon Dioxide, Taurine, L-Carnitine, Calcium Citrate, Chromium Chloride, Sodium Selenite, Sodium Molybdate.

Note: Must be combined with adequate fat and an appropriate vitamin & mineral supplement when taken as the sole source of PKU medical food.

PhenylAde® PheBLOC™ LNAA

A medical food containing essential amino acids (large neutral amino acids and lysine) except phenylalanine. For the dietary management of phenylketonuria (PKU) in individuals over 12 years of age.

Main Features:

- Provides full compliment of essential amino acids (without phenylalanine)
- Simplifies diet management
- Suitable for those currently using sapropterin and prefer non-liquid PKU formula
- An option for late-diagnosed or those who have never been on-diet
- Available in tablets and powder

Visit **NutriciaLearningCenter.com** for guidelines on the usage of PhenylAde PheBloc LNAA in the dietary management of PKU.

Indications:

- Phenylketonuria

Precautions:

- Not for use when planning or during pregnancy
- Seek medical advice before using with serotonergic medications

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories
TABLETS				
123527	00847-0955-01	B9998	550 x 750 mg (0.03 oz)	1650/pack
POUCHES				
123567	00847-0955-04	B4155	110 x 3 g (0.11 oz)	1100/case

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per Tablet (750mg)	Per 5 Tablets (3,750mg)	Per 10 Tablets (7,500mg)
Calories	3	15	30
Protein Equivalent, g	0.44	2.2	4.4
Fat, g	0.02	0.1	0.2
Carbohydrate, g	0.2	1.0	2.0
Minerals			
Calcium, mg	43.5	218	435
Sodium, mg	0.82	4.1	8.2
Chloride, mg	5.5	28	55
Amino Acids, g			
L-Arginine	0.03	0.17	0.34
L-Histidine	0.03	0.16	0.31
L-Isoleucine	0.03	0.16	0.32
L-Leucine	0.03	0.15	0.31
L-Lysine	0.02	0.12	0.23
L-Methionine	0.05	0.25	0.50
L-Phenylalanine	Nil Added	Nil Added	Nil Added
L-Threonine	0.03	0.16	0.33
L-Tryptophan	0.06	0.31	0.61
L-Tyrosine	0.20	0.98	1.97
L-Valine	0.03	0.16	0.32

Nutrients	Per Pouch (3g Powder)	Per 2 Pouches (6g Powder)
Calories	10	20
Protein Equivalent, g	2.2	4.4
Fat, g	0	0
Carbohydrate, g	0.34	0.68
Minerals		
Sodium, mg	Trace	Trace
Chloride, mg	28	56
Amino Acids, g		
L-Arginine	0.17	0.34
L-Histidine	0.16	0.31
L-Isoleucine	0.16	0.32
L-Leucine	0.15	0.31
L-Lysine	0.12	0.23
L-Methionine	0.25	0.50
L-Phenylalanine	Nil Added	Nil Added
L-Threonine	0.16	0.33
L-Tryptophan	0.31	0.61
L-Tyrosine	0.98	1.97
L-Valine	0.16	0.32

Ingredients:

Tablets: L-Tyrosine, Calcium Carbonate, L-Tryptophan, L-Methionine, Microcrystalline Cellulose, L-Arginine, L-Threonine, L-Valine, L-Isoleucine, L-Histidine, L-Leucine, L-Lysine Monohydrochloride, Hydroxypropyl Methylcellulose, Stearic Acid, Croscarmellose Sodium, Magnesium Stearate, Silicon Dioxide.

Powder: L-Tyrosine, Maltodextrin, L-Tryptophan, L-Methionine, L-Arginine, L-Threonine, L-Valine, L-Isoleucine, L-Histidine, L-Leucine, L-Lysine Monohydrochloride.

Note: Must be combined with an appropriate vitamin & mineral supplement when taken as the sole source of PKU medical food.

PKU Maxamum®

A phenylalanine-free powdered medical food for the dietary management of phenylketonuria (PKU) in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- Provides 40 g of protein equivalent per 100 g of powder
- Available in Unflavored and Orange flavor
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg H_2O):

Dilution	Unflavored	Orange
1 to 7	770	790
1 to 5	1090	1140

- Displacement: 0.6 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can/Pouch
175748 - Orange	49735-0183-24	B4162 or B4157	6 x 454 g (1 lb)	1385
175747 - Unflavored	49735-0183-23	B4162 or B4157	6 x 454 g (1 lb)	1385

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40	10
Fat, g	<1.0	<0.25
Carbohydrate, g	34	8.5
Amino Acids, g		
L-Alanine	1.6	0.40
L-Arginine	3.0	0.75
L-Aspartic Acid	2.8	0.70
L-Cystine	1.1	0.28
L-Glutamine	4.9	1.23
Glycine	2.8	0.70
L-Histidine	1.7	0.43
L-Isoleucine	2.7	0.68
L-Leucine	4.6	1.15
L-Lysine	3.5	0.88
L-Methionine	0.73	0.18
L-Phenylalanine	Nil Added	Nil Added
L-Proline	3.2	0.80
L-Serine	2.0	0.50
L-Threonine	2.2	0.55
L-Tryptophan	0.89	0.22
L-Tyrosine	4.0	1.00
L-Valine	2.9	0.73
L-Carnitine	0.04	0.01
Taurine	0.14	0.04

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	332 (8.3)	83 (2.1)
Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62	15.5
Choline, mg	430	108
Inositol, mg	80	20
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37	9.3
Chromium, mcg	26	6.5
Selenium, mcg	58	14.5
Sodium, mg	560	140
Potassium, mg	700	175
Chloride, mg	560	140

Ingredients:

Orange: Sugar, L-Arginine L-Aspartate, L-Lysine Acetate, L-Glutamine, L-Leucine, L-Tyrosine, Calcium Glycerophosphate, L-Proline, Citric Acid, L-Valine, Glycine, L-Isoleucine, L-Threonine, Magnesium Hydrogen Phosphate, Tripotassium Citrate, L-Serine, L-Histidine, L-Alanine, Artificial Flavor, Calcium Phosphate Dibasic, Choline Bitartrate, L-Cystine, Tricalcium Phosphate, Sodium Chloride, N-Acetyl-L-Methionine, Trisodium Citrate, L-Tryptophan, Soy Lecithin, Magnesium L-Aspartate, Taurine, L-Ascorbic Acid, Acesulfame Potassium, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamine Hydrochloride, Riboflavin, Beta-Carotene (For Color), Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Beet Juice Concentrate (For Color), Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy.

Unflavored: Sugar, L-Arginine L-Aspartate, L-Lysine Acetate, L-Glutamine, L-Leucine, L-Tyrosine, Calcium Glycerophosphate, L-Proline, L-Valine, Glycine, L-Isoleucine, L-Threonine, Tripotassium Citrate, Magnesium Hydrogen Phosphate, L-Serine, L-Histidine, L-Alanine, Calcium Phosphate Dibasic, Choline Bitartrate, L-Cystine, Tricalcium Phosphate, Sodium Chloride, N-Acetyl-L-Methionine, Trisodium Citrate, L-Tryptophan, Soy Lecithin, Magnesium L-Aspartate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy.

PKU Lophlex® LQ

A phenylalanine-free*, ready-to-drink medical food containing amino acids, vitamins and minerals and DHA, based on fruit juice (from concentrate) with natural flavor; for the dietary management of phenylketonuria (PKU) in individuals 4 years and older, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine free*
- Low volume; provides 20 g PE in just 4.2 fl oz (125 mL)
- Convenient ready-to-drink
- Made with real fruit juice from concentrate
- Provides 150 mg of DHA per pouch
- Available in 3 flavors: Juicy Tropical (contains 28.4% juice), Juicy Orange (contains 45.5% juice), and Mixed Berry Blast (contains 44.1% juice)
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg H_2O

Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code†	Product Packaging	Calories Per Pouch
86051 Juicy Orange	49735-0195-35	B4157 and B4162	30 x 4.2 fl oz (125 mL)	120
86021 Mixed Berry Blast	49735-0161-30	B4157 and B4162	30 x 4.2 fl oz (125 mL)	120
86055 Juicy Tropical	49735-0161-29	B4157 and B4162	30 x 4.2 fl oz (125 mL)	120

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

† S9435 = For individuals who submit their bills to insurance on their own.

*May contain traces of phenylalanine (PHE) from fruit juice concentrate at a level of <5 mg per 100 mL.

Nutrition Information:

Nutrients	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Calories	120	60
Protein Equivalent, g	20	10
Fat, g	0.44	0.22
DHA, mg	150	75
Carbohydrate, g	9.3	4.7
Fiber, g	0.50	0.25
Amino Acids, g		
L-Alanine	1.16	0.58
L-Arginine	2.00	1.00
L-Aspartic Acid	1.75	0.88
L-Cystine	0.51	0.26
Glycine	1.88	0.94
L-Histidine	0.79	0.40
L-Isoleucine	1.24	0.62
L-Leucine	2.13	1.07
L-Lysine	1.63	0.82
L-Methionine	0.34	0.17
L-Phenylalanine	Trace*	Trace*
L-Proline	2.00	1.00
L-Serine	1.09	0.55
L-Threonine	1.04	0.52
L-Tryptophan	0.41	0.21
L-Tyrosine	1.88	0.94
L-Valine	1.38	0.69
L-Carnitine	0.01	0.01
Taurine	0.10	0.05

Vitamins	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	949 (285)	475 (143)
Vitamin D_3, IU (mcg)	320 (8.0)	160 (4.0)
Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
Vitamin K, mcg	24.9	12.5
Thiamine, mg	0.54	0.27
Riboflavin, mg	0.50	0.25
Vitamin B_6, mg	0.58	0.29
Vitamin B_{12}, mcg	1.8	0.90
Niacin, mg	7.1	3.6
Folic Acid, mcg	120	60.0
Pantothenic Acid, mg	1.8	0.90
Biotin, mcg	53.4	26.7
Vitamin C, mg	17.8	8.9
Choline, mg	153	76.5
Inositol, mg	40.6	20.3
Minerals		
Calcium, mg	319	160
Phosphorus, mg	244	122
Magnesium, mg	96.3	48.2
Iron, mg	5.1	2.6
Zinc, mg	3.8	1.9
Manganese, mg	0.56	0.28
Copper, mcg	56.3	28.2
Iodine, mcg	56.3	28.2
Molybdenum, mcg	25.0	12.5
Chromium, mcg	10.8	5.4
Selenium, mcg	26.8	13.4
Sodium, mg	<25	<12.5
Potassium, mg	90.0	45.0
Chloride, mg	<25	<12.5

Ingredients:

Juicy Tropical: Water, Orange Juice Concentrate (18%), Mango Puree Concentrate (6.4%), Mandarin Juice Concentrate (4.0%), Corn Syrup Solids, L-Leucine, L-Proline, L-Arginine, Glycine, L-Tyrosine, L-Lysine Acetate, L-Valine, L-Aspartic Acid, L-Isoleucine, Dicalcium Phosphate, L-Alanine, L-Serine, L-Threonine, Citric Acid, L-Histidine, L-Lysine L-Aspartate, Maltodextrin, Magnesium Acetate, L-Cystine, Choline Bitartrate, L-Tryptophan, Sugar, *C. cohnii* Oil**, N-Acetyl-L-Methionine, Microcrystalline Cellulose, L-Ascorbic Acid, Taurine, L-Methionine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Natural Flavor, Potassium Sorbate, Ferrous Lactate, Cellulose Gum, Acesulfame Potassium, L-Carnitine, Sodium Benzoate, Zinc Sulfate, Niacinamide, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

Juicy Orange: Orange Juice Concentrate (45.5%), Water, Corn Syrup Solids, L-Leucine, Citric Acid, L-Proline, L-Arginine, Glycine, L-Tyrosine, L-Lysine Acetate, L-Valine, L-Aspartic Acid, L-Isoleucine, Dicalcium Phosphate, L-Alanine, L-Serine, L-Threonine, L-Histidine, L-Lysine L-Aspartate, Maltodextrin, Magnesium Acetate, L-Cystine, Choline Bitartrate, L-Tryptophan, Sugar, *C. cohnii* Oil**, N-Acetyl-L-Methionine, Microcrystalline Cellulose, Natural Flavor, L-Ascorbic Acid, Taurine, L-Methionine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate, Sucralose, Ferrous Lactate, Cellulose Gum, Acesulfame Potassium, L-Carnitine, Sodium Benzoate, Zinc Sulfate, Niacinamide, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

Mixed Berry Blast: Water, Apple Juice Concentrate (34.1%), Grape Juice Concentrate (6.9%), Blackcurrant Juice Concentrate (2.5%), L-Leucine, Citric Acid, L-Proline, L-Arginine, Glycine, L-Tyrosine, L-Lysine Acetate, Corn Syrup Solids, L-Valine, L-Aspartic Acid, L-Isoleucine, Dicalcium Phosphate, L-Alanine, L-Serine, L-Threonine, Elderberry Juice Concentrate (0.6%), L-Histidine, L-Lysine L-Aspartate, Maltodextrin, Magnesium Acetate, L-Cystine, Choline Bitartrate, L-Tryptophan, Sugar, *C. cohnii* Oil**, N-Acetyl-L-Methionine, Microcrystalline Cellulose, Natural Flavor, L-Ascorbic Acid, Fruit Concentrate, Taurine, L-Methionine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate, Sucralose, Ferrous Lactate, Cellulose Gum, Acesulfame Potassium, L-Carnitine, Sodium Benzoate, Zinc Sulfate, Niacinamide, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

**A source of docosahexaenoic acid (DHA).

PKU Lophlex® Powder

A low volume, phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine free
- Low volume and low calorie
- Contains vitamins, minerals, and trace elements
- Age-appropriate DRI formulation
- Provides 10 g of protein equivalent per pouch
- Available in Berry and Orange flavors
- Osmolality (mOsm/kg H_2O):

Dilution	Orange	Berry
1 to 5	1390	1340

Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Pouch
49418 - Berry	49735-0121-69	B4157 and B4162	30 x 14.3 g (0.5 oz)	41
49417 - Orange	49735-0121-67	B4157 and B4162	30 x 14.3 g (0.5 oz)	41

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per pouch (14.3 g)
Calories	286	41
Protein Equivalent, g	70	10
Fat, g	0.2	0.03
Carbohydrate, g	1.0	0.14
Amino Acids, g		
L-Alanine	3.3	0.47
L-Arginine	5.8	0.83
L-Aspartic Acid	5.4	0.77
L-Cystine	2.2	0.31
Glycine	5.1	0.73
L-Histidine	3.3	0.47
L-Isoleucine	5.1	0.73
L-Leucine	8.7	1.24
L-Lysine	5.9	0.84
L-Methionine	1.4	0.20
L-Phenylalanine	Nil Added	Nil Added
L-Proline	6.2	0.89
L-Serine	3.8	0.54
L-Threonine	4.3	0.61
L-Tryptophan	1.7	0.24
L-Tyrosine	7.8	1.12
L-Valine	5.6	0.80
L-Carnitine	0.06	0.01
Taurine	0.11	0.02
L-Glutamine	3.95	0.56

Vitamins	Per 100 g	Per pouch (14.3 g)
Vitamin A, IU (mcg RE)	3896 (1170)	557 (167)
Vitamin D_3, IU (mcg)	580 (14.5)	82.9 (2.1)
Vitamin E, IU (mg α-TE)	32 (21.5)	4.6 (3.1)
Vitamin K, mcg	143	20.4
Thiamine, mg	1.6	0.23
Riboflavin, mg	1.7	0.24
Vitamin B_6, mg	2.8	0.4
Vitamin B_{12}, mcg	5.5	0.79
Niacin, mg	10	1.4
Folic Acid, mcg	860	123
Pantothenic Acid, mg	8.6	1.2
Biotin, mcg	43	6.1
Vitamin C, mg	110	15.7
Choline, mg	720	103
Inositol, mg	140	20
Minerals		
Calcium, mg	2070	296
Phosphorus, mg	1990	285
Magnesium, mg	535	76.5
Iron, mg	25.7	3.7
Zinc, mg	15.8	2.3
Manganese, mg	3.1	0.44
Copper, mcg	1430	204
Iodine, mcg	229	32.7
Molybdenum, mcg	65	9.3
Chromium, mcg	46	6.6
Selenium, mcg	101	14.4
Sodium, mg	<20	<3
Potassium, mg	<40	<6
Chloride, mg	<1	<1

Ingredients:

Berry: L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, Calcium Phosphate Tribasic, L-Valine, Glycine, L-Isoleucine, L-Threonine, Magnesium Hydrogen Phosphate, L-Glutamine, L-Serine, L-Histidine, L-Alanine, Citric Acid, L-Cystine, N-Acetyl-L-Methionine, Choline Bitartrate, L-Tryptophan, Calcium Phosphate Monobasic, Guar Gum, Artificial Flavor, Soy Lecithin, L-Ascorbic Acid, M-Inositol, Acesulfame Potassium, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Beet Juice Concentrate (For Color), Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy.

Orange: L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, Calcium Phosphate Tribasic, L-Valine, Glycine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, L-Glutamine, L-Serine, L-Histidine, L-Alanine, Citric Acid, L-Cystine, N-Acetyl-L-Methionine, Choline Bitartrate, L-Tryptophan, Calcium Phosphate Monobasic, Artificial Flavor, Guar Gum, Soy Lecithin, L-Ascorbic Acid, M-Inositol, Acesulfame Potassium, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Beet Juice Concentrate (For Color), Beta-Carotene (For Color), Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy.

Phlexy-10® Tablets

A phenylalanine-free medical food in tablet form for the dietary management of phenylketonuria (PKU) in individuals over 8 years of age, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine free
- Every 12 tablets provide 10 g of protein equivalent
- A great alternative to PKU liquid formula

Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories per Container
49300 - Tablets	49735-0019-51	A9270	75/container	285

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 10 Tablets	Per 12 Tablets
Calories	41	49
Protein Equivalent, g	8.3	10.0
Fat, g	0.38	0.46
Saturated, g	0.36	0.43
Carbohydrate, g	3.7	4.3
Fiber, g	3.0	3.5
Amino Acids, g		
L-Alanine	0.41	0.49
L-Arginine	0.72	0.86
L-Aspartic Acid	0.68	0.82
L-Cystine	0.27	0.32
L-Glutamic Acid	Nil Added	Nil Added
L-Glutamine	0.50	0.60
Glycine	0.64	0.77
L-Histidine	0.41	0.49
L-Isoleucine	0.64	0.77
L-Leucine	1.09	1.31
L-Lysine	0.74	0.89
L-Methionine	0.17	0.20
L-Phenylalanine	Nil Added	Nil Added
L-Proline	0.77	0.92
L-Serine	0.47	0.56
L-Threonine	0.54	0.65
L-Tryptophan	0.22	0.26
L-Tyrosine	0.97	1.16
L-Valine	0.70	0.84
L-Carnitine	0.01	0.01
Taurine	0.01	0.02

Ingredients:

Microcrystalline Cellulose, L-Leucine, L-Tyrosine, L-Lysine Hydrochloride, L-Proline, L-Arginine, L-Valine, L-Aspartic Acid, Pregelatinized Corn Starch, Glycine, L-Isoleucine, L-Threonine, L-Glutamine, L-Serine, L-Alanine, L-Histidine, Magnesium Stearate, L-Cystine, Hydroxypropyl Methyl Cellulose, L-Tryptophan, Gum Acacia, L-Methionine, Stearic Acid, Glycerol, Taurine, L-Carnitine.

Note: Must be combined with an appropriate vitamin & mineral supplement when taken as the sole source of PKU medical food.

Phlexy-10® Drink Mix

A phenylalanine-free powdered medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine free
- Available in Blackcurrant-Apple and Tropical Surprise flavors
- Each pouch provides 8.33 g protein equivalent
- Convenient, pre-measured single serve pouches
- Osmolality (mOsm/kg H_2O):

Dilution	Blackcurrant-Apple	Tropical Surprise
1 to 5	1172	1140

Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Pouch
49161 Blackcurrant-Apple	49735-0114-67	B4157 or B4162	30 x 20 g (0.7 oz)	69
49257 Tropical Surprise	49735-0119-10	B4157 or B4162	30 x 20 g (0.7 oz)	69

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per Pouch (20 g)
Calories	69
Protein Equivalent, g	8.33
Fat, g	Nil Added
Carbohydrate, g	8.8
Amino Acids, g	
L-Alanine	0.41
L-Arginine	0.72
L-Aspartic Acid	0.68
L-Cystine	0.27
Glycine	0.64
L-Histidine	0.41
L-Isoleucine	0.64
L-Leucine	1.09
L-Lysine	0.74
L-Methionine	0.17
L-Phenylalanine	Nil Added
L-Proline	0.77
L-Serine	0.47
L-Threonine	0.54
L-Tryptophan	0.22
L-Tyrosine	0.97
L-Valine	0.70
L-Carnitine	0.007
Taurine	0.014
L-Glutamine	0.50

Ingredients:

Blackcurrant-Apple: Sucrose, L-Lysine Aspartate, L-Leucine, L-Tyrosine, Artificial Flavors, L-Proline, L-Arginine, L-Valine, L-Isoleucine, Glycine, Malic Acid, L-Threonine, L-Glutamine, Corn Syrup Solids, L-Serine, L-Histidine, L-Alanine, L-Cystine, N-Acetyl-L-Methionine, L-Tryptophan, Soy Lecithin, Taurine, L-Carnitine, Sodium Saccharin, Artificial Color.

Contains: Soy.

Tropical Surprise: Sucrose, L-Lysine Aspartate, Artificial Flavors, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, L-Valine, Citric Acid, Glycine, L-Isoleucine, L-Threonine, L-Glutamine, Corn Syrup Solids, L-Serine, L-Histidine, L-Alanine, L-Cystine, N-Acetyl-L-Methionine, L-Tryptophan, Soy Lecithin, Acesulfame Potassium, Taurine, L-Carnitine, Artificial Color.

Contains: Soy.

Note: Must be combined with an appropriate vitamin & mineral supplement when taken as the sole source of PKU medical food.

MSUD Anamix® Early Years

A valine-, leucine-, and isoleucine-free powdered infant formula with iron, for the dietary management of maple syrup urine disease (MSUD). Contains DHA and ARA, and a unique blend of prebiotics.

Main Features:

- Valine-, leucine-, and isoleucine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H_2O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
90168	49735-0101-68	B4162	6 x 400 g (14.1 oz)	1892

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	473	350
Protein Equivalent, g	13.5	10.0
Fat, g	23.0	17.0
Saturated, g	7.5	5.6
Monounsaturated, g	9.4	7.0
Polyunsaturated, g	5.0	3.7
DHA, mg	70.0	51.9
ARA, mg	140	104
Linoleic Acid, mg	3500	2593
Carbohydrate, g	53.0	39.3
Fiber, g	5.3	3.9
GOS, g	4.7	3.5
FOS, g	0.55	0.41
Amino Acids, g		
L-Alanine	0.82	0.61
L-Arginine	1.40	1.04
L-Aspartic Acid	1.20	0.89
L-Cystine	0.52	0.39
L-Glutamic Acid	1.60	1.19
L-Glutamine	0.13	0.10
Glycine	1.29	0.96
L-Histidine	0.80	0.59
L-Isoleucine	Nil Added	Nil Added
L-Leucine	Nil Added	Nil Added
L-Lysine	1.45	1.07
L-Methionine	0.34	0.25
L-Phenylalanine	0.94	0.70
L-Proline	1.56	1.16
L-Serine	0.96	0.71
L-Threonine	1.05	0.78
L-Tryptophan	0.42	0.31
L-Tyrosine	0.94	0.70
L-Valine	Nil Added	Nil Added
L-Carnitine	0.01	0.01
Taurine	0.03	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1305 (392)	967 (290)
Vitamin D_3, IU (mcg)	348 (8.7)	258 (6.4)
Vitamin E, IU (mg α-TE)	10.9 (7.3)	8.1 (5.4)
Vitamin K, mcg	38.0	28.1
Thiamine, mcg	500	370
Riboflavin, mcg	500	370
Vitamin B_6, mcg	500	370
Vitamin B_{12}, mcg	1.2	0.89
Niacin, mcg	2200	1630
Folic Acid, mcg	55.0	40.7
Pantothenic Acid, mcg	2800	2074
Biotin, mcg	18.2	13.5
Vitamin C, mg	49.0	36.3
Choline, mg	91.0	67.4
Inositol, mg	98.0	72.6
Minerals		
Calcium, mg	371	275
Phosphorus, mg	270	200
Magnesium, mg	52.5	38.9
Iron, mg	7.3	5.4
Zinc, mg	5.2	3.9
Manganese, mcg	390	289
Copper, mcg	390	289
Iodine, mcg	82.5	61.1
Molybdenum, mcg	10.9	8.1
Chromium, mcg	12.5	9.3
Selenium, mcg	14.1	10.4
Sodium, mg	171	127
Potassium, mg	454	336
Chloride, mg	321	238

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-Hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) (Milk), L-Lysine L-Glutamate, L-Proline, L-Arginine, Glycine, L-Aspartic Acid, Tricalcium Phosphate, L-Threonine, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Tyrosine, L-Phenylalanine, L-Serine, L-Histidine, L-Alanine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Cystine, L-Tryptophan, Sodium Phosphate Dibasic, Magnesium Acetate, L-Methionine, *M. alpina* Oil*, Choline Bitartrate, *C. cohnii* Oil**, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy Oil, Coconut Oil, Milk.

*A source of Arachidonic Acid (ARA)
**A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL

Complex MSD® Essential

A valine-, leucine-, and isoleucine-free powdered medical food for the dietary management of maple syrup urine disease (MSUD) in children and adults, including pregnant women and women of child bearing age.

Main Features:

- Valine, leucine, and isoleucine free
- Amino acid profile specifically designed for MSUD; clinically researched in two studies†
- Complete with essential vitamins and minerals
- Provides 25 g of protein equivalent per 100 g of powder
- Available in Vanilla flavor
- Osmolality (at 0.63 kcal/mL): 813 mOsm/kg H_2O based on dilution of 40 g powder (1 scoop) to 7 fl oz (210 mL) water
- Displacement: 0.75 mL/g

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
120460	00847-0597-22	B4157 or B4162	4 x 454 g (1 lb)	1612

WIC†: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

† Strauss KA et al. Mol Genet Metab. 2010;99:333-45 and Strauss KA, et al. Mol Genet Metab. 2020;129:193-206.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	355	142
Protein Equivalent, g	25	10
Fat, g	9.5	3.8
Saturated, g	4.2	1.7
Monounsaturated, g	3.5	1.4
Polyunsaturated, g	1.7	0.7
Linoleic Acid, mg	1447	579
α-Linolenic Acid, mg	360	144
Carbohydrate, g	44	18
Fiber, g	3.9	1.5
Amino Acids, g		
L-Alanine	2.70	1.08
L-Arginine	1.28	0.51
L-Asparagine	1.45	0.58
L-Cystine	0.56	0.22
L-Glutamic Acid	0.86	0.35
L-Glutamine	7.17	2.87
Glycine	0.67	0.27
L-Histidine	1.79	0.71
L-Isoleucine	Nil Added	Nil Added
L-Leucine	Nil Added	Nil Added
L-Lysine	2.27	0.91
L-Methionine	0.74	0.30
L-Phenylalanine	2.20	0.88
L-Proline	1.48	0.59
L-Serine	1.12	0.45
L-Threonine	1.81	0.72
L-Tryptophan	1.33	0.53
L-Tyrosine	2.20	0.88
L-Valine	Nil Added	Nil Added
L-Carnitine	0.06	0.02
Taurine	0.14	0.06

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	1700 (637)	680 (255)
Vitamin D_3, IU (mcg)	600 (15.0)	240 (6.0)
Vitamin E, IU (mg α-TE)	18.4 (12.3)	7.3 (4.9)
Vitamin K, mcg	50	20
Thiamine, mg	1.5	0.60
Riboflavin, mg	1.5	0.60
Vitamin B_6, mg	1.3	0.52
Vitamin B_{12}, mcg	2.0	0.80
Niacin, mg	12	4.8
Folic Acid, mcg	250	100
Pantothenic Acid, mg	5.5	2.2
Biotin, mcg	30	12
Vitamin C, mg	60	24
Choline, mg	100	40
Inositol, mg	40	16
Minerals		
Calcium, mg	814	326
Phosphorus, mg	864	346
Magnesium, mg	200	80
Iron, mg	13	5.2
Zinc, mg	12	4.8
Manganese, mg	1.5	0.60
Copper, mcg	1000	400
Iodine, mcg	120	48
Molybdenum, mcg	75	30
Chromium, mcg	40	16.1
Selenium, mcg	100	40
Sodium, mg	627	251
Potassium, mg	1301	520
Chloride, mg	860	344

Ingredients:

Sugar, Maltodextrin, L- Glutamine, Dextrin, L-Lysine Acetate, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), L-Alanine, Natural and Artificial Flavors, High Oleic Sunflower Oil, Potassium Citrate, L-Phenylalanine, L-Tyrosine, Tricalcium Phosphate, L-Threonine, L-Histidine, L-Asparagine Monohydrate, Canola Oil, Sunflower Oil, Magnesium Phosphate, Sodium Chloride, L-Proline, Dipotassium Phosphate, L-Tryptophan, L-Arginine, L-Serine, L-Glutamic Acid, L-Methionine, Glycine, L-Cystine, Flaxseed Oil, Citric Acid Esters of Mono- and Diglycerides (CITREM), Modified Corn Starch, Choline Bitartrate, Sodium Citrate, Taurine, Ascorbic Acid, L-Carnitine, Ferrous Sulfate, Inositol, Vitamin E Acetate, Zinc Sulfate, Sunflower Lecithin, Calcium Phosphate, Niacinamide, Ascorbyl Palmitate, Copper Gluconate, Calcium D-Pantothenate, Vitamin D_3, Vitamin A Palmitate , Vitamin K_1, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Chromium Chloride, Sodium Selenite, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Thiamine Mononitrate, Folic Acid, Sodium Molybdate, Vitamin B_{12}.

Complex MSD® Amino Acid Blend

A valine-, leucine-, and isoleucine-free powdered medical food for the dietary management of maple syrup urine disease (MSUD) in children and adults.

Main Features:

- Valine, leucine, and isoleucine free
- Amino acid profile specifically designed for MSUD; clinically researched in two studies†
- Does not contain fat, carbohydrates, vitamins or minerals
- 40 calories per serving
- Provides 81 g of protein equivalent per 100 g of powder
- Unflavored powder
- Displacement: 0.48 mL/g

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
120459	00847-0590-00	B4155 or B9998	4 x 454 g (1 lb)	1466

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

† Strauss KA et al. Mol Genet Metab. 2010;99:333-45 and Strauss KA, et al. Mol Genet Metab. 2020;129:193-206.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	323	40
Protein Equivalent, g	81	10
Fat, g	0	0
Carbohydrate, g	0	0

Amino Acids, g	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
L-Alanine	8.72	1.08
L-Arginine	4.13	0.51
L-Asparagine	4.67	0.58
L-Cystine	1.80	0.22
L-Glutamic Acid	2.79	0.35
L-Glutamine	23.12	2.87
Glycine	2.16	0.27
L-Histidine	5.76	0.71
L-Isoleucine	Nil Added	Nil Added
L-Leucine	Nil Added	Nil Added
L-Lysine	7.32	0.91
L-Methionine	2.38	0.30
L-Phenylalanine	7.08	0.88
L-Proline	4.76	0.59
L-Serine	3.60	0.45
L-Threonine	5.83	0.72
L-Tryptophan	4.28	0.53
L-Tyrosine	7.08	0.88
L-Valine	Nil Added	Nil Added
L-Carnitine	0.19	0.02
Taurine	0.46	0.06

Ingredients:

L-Glutamine, L-Lysine Acetate, L-Alanine, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Histidine, L-Asparagine Monohydrate, L-Proline, L-Tryptophan, L-Arginine, L-Serine, L-Glutamic Acid, L-Methionine, Glycine, L-Cystine, Taurine, Silicon Dioxide, L-Carnitine.

Note: Must be combined with an appropriate vitamin & mineral supplement when taken as the sole source of MSUD medical food.

MSUD Maxamum®

A valine-, leucine-, and isoleucine-free powdered medical food for the dietary management of maple syrup urine disease (MSUD) in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Valine, leucine, and isoleucine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- Provides 40 g of protein equivalent per 100 g of powder
- Available in Orange flavor
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg H_2O):
  Dilution
  1 to 7 750
  1 to 5 1090
- Displacement: 0.6 mL/g

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
175749	49735-0177-89	B4157 or B4162	6 x 454 g (1 lb)	1385

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40	10
Fat, g	<1.0	<0.25
Carbohydrate, g	34	8.5
Amino Acids, g		
L-Alanine	2.4	0.60
L-Arginine	4.1	1.03
L-Aspartic Acid	3.4	0.85
L-Cystine	1.6	0.40
L-Glutamic Acid	4.6	1.15
L-Glutamine	0.32	0.08
Glycine	3.7	0.93
L-Histidine	2.3	0.58
L-Isoleucine	Nil Added	Nil Added
L-Leucine	Nil Added	Nil Added
L-Lysine	4.2	1.05
L-Methionine	0.99	0.25
L-Phenylalanine	2.8	0.70
L-Proline	4.5	1.13
L-Serine	2.8	0.70
L-Threonine	3.1	0.78
L-Tryptophan	1.3	0.33
L-Tyrosine	2.8	0.70
L-Valine	Nil Added	Nil Added
L-Carnitine	0.04	0.01
Taurine	0.14	0.04

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	33.2 (8.3)	8.3 (2.1)
Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62	15.5
Choline, mg	430	108
Inositol, mg	80	20
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37	9.3
Chromium, mcg	26	6.5
Selenium, mcg	58	14.5
Sodium, mg	560	140
Potassium, mg	700	175
Chloride, mg	560	140

Ingredients:

Sugar, L-Lysine L-Glutamate, Corn Syrup Solids, Calcium Phosphate Dibasic, L-Proline, L-Arginine, Glycine, L-Aspartic Acid, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, Artificial Flavor, L-Histidine, L-Alanine, Citric Acid, Magnesium Acetate, L-Cystine, L-Tryptophan, Tripotassium Citrate, Choline Bitartrate, L-Methionine, Sodium Chloride, Soy Lecithin, Disodium Hydrogen Phosphate, Dipotassium Hydrogen Phosphate, L-Glutamine, Tricalcium Phosphate, L-Glutamic Acid, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Beta-Carotene (For Color), Chromium Chloride, Beet Juice Concentrate (For Color), Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy.

MSUD Lophlex® LQ

A valine-, leucine-, and isoleucine-free* ready-to-drink medical food containing amino acids, carbohydrates, vitamins, minerals and DHA, based on mixed fruit juices (from concentrate) with natural flavor; for the dietary management of maple syrup urine disease (MSUD) in individuals 4 years and older, including pregnant women and women of child-bearing age.

Main Features:

- Valine, leucine, and isoleucine free*
- Low volume; provides 20 g PE in just 4.2 fl oz (125 mL)
- Convenient ready-to-drink
- No artificial flavors
- Contains 44.1% juice
- Provides 150 mg of DHA per pouch
- Available in Mixed Berry Blast flavor
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg H_2O

Indications:

- Maple syrup urine disease (MSUD)

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code†	Product Packaging	Calories Per Pouch
82112	49735-0167-49	B4157 or B4162	30 x 4.2 fl oz (125 mL)	120

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

† S9435 = For individuals who submit their bills to insurance on their own.

*May contain traces of leucine, isoleucine and valine from fruit juice concentrate at levels of <1.5 mg per 100 mL.

Nutrition Information:

Nutrients	Per Pouch (4.2 fl oz)	Per 10 g Protein Equivalent
Calories	120	60
Protein Equivalent, g	20	10
Fat, g	0.44	0.22
DHA, mg	150	75
Carbohydrate, g	9.3	4.7
Fiber, g	0.50	0.25
Amino Acids, g		
L-Alanine	1.40	0.70
L-Arginine	1.90	0.95
L-Aspartic Acid	1.45	0.73
L-Cystine	1.20	0.60
Glycine	1.90	0.95
L-Histidine	1.00	0.50
L-Isoleucine	Trace*	Trace*
L-Leucine	Trace*	Trace*
L-Lysine	1.78	0.89
L-Methionine	0.43	0.22
L-Phenylalanine	1.18	0.59
L-Proline	2.38	1.19
L-Serine	1.65	0.83
L-Threonine	1.30	0.65
L-Tryptophan	0.53	0.27
L-Tyrosine	2.00	1.00
L-Valine	Trace*	Trace*
L-Carnitine	0.01	0.01
Taurine	0.06	0.03

Vitamins	Per Pouch (4.2 fl oz)	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	949 (285)	475 (143)
Vitamin D_3, IU (mcg)	320 (8.0)	160 (4.0)
Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
Vitamin K, mcg	24.9	12.5
Thiamine, mg	0.54	0.27
Riboflavin, mg	0.50	0.25
Vitamin B_6, mg	0.58	0.29
Vitamin B_{12}, mcg	1.8	0.90
Niacin, mg	7.1	3.6
Folic Acid, mcg	120	60.0
Pantothenic Acid, mg	1.8	0.9
Biotin, mcg	53.4	26.7
Vitamin C, mg	17.8	8.9
Choline, mg	153	76.5
Inositol, mg	40.6	20.3
Minerals		
Calcium, mg	319	160
Phosphorus, mg	244	122
Magnesium, mg	96.3	48.2
Iron, mg	5.1	2.6
Zinc, mg	3.8	1.9
Manganese, mg	0.56	0.28
Copper, mcg	56.3	28.2
Iodine, mcg	56.3	28.2
Molybdenum, mcg	25.0	12.5
Chromium, mcg	10.8	5.4
Selenium, mcg	26.8	13.4
Sodium, mg	<25.0	<12.5
Potassium, mg	90	45
Chloride, mg	<25.0	<12.5

Ingredients:

Water, Apple Juice Concentrate (34.1%), Grape Juice Concentrate (6.9%), Blackcurrant Juice Concentrate (2.5%), L-Lysine Acetate, L-Proline, Citric Acid, L-Tyrosine, L-Arginine, Glycine, L-Serine, L-Aspartic Acid, L-Alanine, L-Threonine, Corn Syrup Solids, L-Cystine, L-Phenylalanine, Dicalcium Phosphate, L-Histidine, Elderberry Juice Concentrate (0.6%), Maltodextrin, Magnesium Acetate, N-Acetyl-L-Methionine, L-Tryptophan, Choline Bitartrate, *C. cohnii* Oil**, Sugar, Microcrystalline Cellulose, Natural Flavor, Fruit Concentrate, L-Ascorbic Acid, Taurine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate, Sucralose, Ferrous Lactate, Acesulfame Potassium, Sodium Benzoate, Zinc Sulfate, L-Carnitine, Niacinamide, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

**A Source of Docosahexaenoic Acid (DHA).

IVA Anamix® Early Years

A leucine-free powdered infant formula with iron, for the dietary management of isovaleric acidemia (IVA). Contains DHA and ARA, and a unique blend of prebiotics.

Main Features:

- Leucine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H_2O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Indications:

- Isovaleric acidemia
- Other proven disorders of leucine metabolism

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
90211	49735-0102-11	B4162	6 x 400 g (14.1 oz)	1892

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	473	350
Protein Equivalent,g	13.5	10.0
Fat, g	23.0	17.0
Saturated, g	7.5	5.6
Monounsaturated, g	9.4	7.0
Polyunsaturated, g	5.0	3.7
DHA, mg	70.0	51.9
ARA, mg	140	104
Linoleic Acid,mg	3500	2593
Carbohydrate, g	53.0	39.3
Fiber, g	5.3	3.9
GOS, g	4.7	3.5
FOS, g	0.55	0.41
Amino Acids, g		
L-Alanine	0.74	0.55
L-Arginine	1.21	0.90
L-Aspartic Acid	1.02	0.76
L-Cystine	0.44	0.33
L-Glutamic Acid	1.35	1.00
L-Glutamine	0.11	0.08
Glycine	2.18	1.61
L-Histidine	0.70	0.52
L-Isoleucine	0.42	0.31
L-Leucine	Nil Added	Nil Added
L-Lysine	1.06	0.79
L-Methionine	0.30	0.22
L-Phenylalanine	0.82	0.61
L-Proline	2.19	1.62
L-Serine	0.68	0.50
L-Threonine	0.72	0.53
L-Tryptophan	0.27	0.20
L-Tyrosine	0.80	0.59
L-Valine	0.48	0.36
L-Carnitine	0.01	0.01
Taurine	0.03	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1305(392)	967(290)
Vitamin D_3, IU (mcg)	348(8.7)	258(6.4)
Vitamin E, IU (mg α-TE)	10.9 (7.3)	8.1 (5.4)
Vitamin K, mcg	38.0	28.1
Thiamine, mcg	500	370
Riboflavin, mcg	500	370
Vitamin B_6, mcg	500	370
Vitamin B_{12}, mcg	1.2	0.89
Niacin, mcg	2200	1630
Folic Acid, mcg	55.0	40.7
Pantothenic Acid, mcg	2800	2074
Biotin, mcg	18.2	13.5
Vitamin C, mg	49.0	36.3
Choline, mg	91.0	67.4
Inositol, mg	98.0	72.6
Minerals		
Calcium, mg	371	275
Phosphorus, mg	270	200
Magnesium, mg	52.5	38.9
Iron, mg	7.3	5.4
Zinc, mg	5.2	3.9
Manganese, mcg	390	289
Copper, mcg	390	289
Iodine, mcg	82.5	61.1
Molybdenum, mcg	10.9	8.1
Chromium, mcg	12.5	9.3
Selenium, mcg	14.1	10.4
Sodium, mg	171	127
Potassium, mg	454	336
Chloride, mg	321	238

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-Hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) (Milk), L-Lysine L-Glutamate, L-Proline, Glycine, L-Arginine, Tricalcium Phosphate, L-Aspartic Acid, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Tyrosine, L-Phenylalanine, L-Alanine, L-Threonine, L-Histidine, L-Serine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Valine, L-Cystine, L-Isoleucine, Sodium Phosphate Dibasic, Magnesium Acetate, *M. alpina* Oil*, L-Methionine, L-Glutamic Acid, L-Tryptophan, Choline Bitartrate, *C. cohnii* Oil**, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy Oil, Coconut Oil, Milk.

*A source of Arachidonic Acid (ARA)
**A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL

IVA Anamix® Next

A leucine-free powdered medical food for the dietary management of isovaleric acidemia (IVA) in individuals over 1 year of age.

Main Features:

- Leucine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals, and trace elements
- Provides 28 g of protein equivalent (PE) and 12.5 g of fat per 100 g of powder
- Available in Plain flavor
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg H_2O based on dilution of 36 g powder (approx. 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

Indications:

- Isovaleric acidemia
- Other proven disorders of leucine metabolism

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
89471	49735-0194-71	B4157 or B4162	6 x 400 g (14.1 oz)	1508

WIC†: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	377	135
Protein Equivalent, g	28	10
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g	41.2	14.7
Fiber, g	11.2	4.0
Soluble, g	8.0	2.9
Insoluble, g	3.2	1.1
Amino Acids, g		
L-Alanine	1.35	0.48
L-Arginine	2.35	0.84
L-Aspartic Acid	2.00	0.71
L-Cystine	0.94	0.34
L-Glutamic acid	1.88	0.67
L-Glutamine	3.16	1.13
Glycine	4.60	1.64
L-Histidine	1.40	0.50
L-Isoleucine	0.92	0.33
L-Leucine	Nil Added	Nil Added
L-Lysine	2.20	0.79
L-Methionine	0.64	0.23
L-Phenylalanine	1.70	0.61
L-Proline	4.10	1.46
L-Serine	1.45	0.52
L-Threonine	1.50	0.54
L-Tryptophan	0.58	0.21
L-Tyrosine	1.70	0.61
L-Valine	1.04	0.37
L-Carnitine	0.02	0.01
Taurine	0.06	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1748 (525)	628 (189)
Vitamin D_3, IU (mcg)	1052 (26.3)	379 (9.4)
Vitamin E, IU (mg α-TE)	15.6 (10.5)	5.6 (3.8)
Vitamin K, mcg	17.5	6.3
Thiamine, mg	0.91	0.33
Riboflavin, mg	0.91	0.33
Vitamin B_6, mg	0.91	0.33
Vitamin B_{12}, mcg	1.6	0.57
Niacin, mg	2.5	0.90
Folic Acid, mcg	26.3	93.9
Pantothenic Acid, mg	5.3	1.9
Biotin, mcg	14.0	5.0
Vitamin C, mg	52.5	18.8
Choline, mg	280	100
Inositol, mg	70.0	25.0
Minerals		
Calcium, mg	1225	438
Phosphorus, mg	801	286
Magnesium, mg	140	50.0
Iron, mg	12.5	4.5
Zinc, mg	6.1	2.2
Manganese, mg	1.2	0.43
Copper, mcg	700	250
Iodine, mcg	174	62.1
Molybdenum, mcg	31.9	11.4
Chromium, mcg	12.8	4.6
Selenium, mcg	35.3	12.6
Sodium, mg	350	125
Potassium, mg	556	199
Chloride, mg	508	181

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), Glycine, L-Proline, Calcium Phosphate Dibasic, Fructo-oligosaccharides, L-Glutamine, Inulin, L-Lysine Acetate, Corn Starch, Microcrystalline Cellulose, L-Arginine, Artificial Flavor, Magnesium L-Aspartate, Gum Arabic, L-Glutamic Acid, L-Tyrosine, L-Phenylalanine, Tripotassium Citrate, L-Threonine, L-Serine, L-Histidine, L-Alanine, L-Valine, Trisodium Citrate, L-Cystine, L-Isoleucine, Maltodextrin, Choline Bitartrate, Calcium Chloride, L-Methionine, L-Tryptophan, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil*, L-Aspartic Acid, Sodium Chloride, L-Ascorbic Acid, M-Inositol, Soy Fiber, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Ascorbyl Palmitate, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-Alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin.

Contains: Coconut Oil, Soy.

*A source of Docosahexaenoic Acid (DHA)

IVA Maxamum®

A leucine-free powdered medical food for the dietary management of isovaleric acidemia (IVA) and other proven disorders of leucine metabolism in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Leucine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements (including iron, selenium and chromium)
- Age-appropriate DRI formulation
- Provides 40 g of protein equivalent per 100 g of powder
- Available in Orange flavor
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg H_2O):
  Dilution
  1 to 7 800
  1 to 5 1120
- Displacement: 0.6 mL/g

Indications:

- Isovaleric acidemia
- Other proven disorders of leucine metabolism

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
175752	49735-0177-90	B4157 or B4162	6 x 454 g (1 lb)	1385

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40	10
Fat, g	<1.0	<0.25
Carbohydrate, g	34	8.5
Amino Acids, g		
L-Alanine	2.2	0.55
L-Arginine	3.6	0.90
L-Aspartic Acid	3.0	0.75
L-Cystine	1.3	0.33
L-Glutamic Acid	3.9	0.98
Glycine	6.3	1.58
L-Histidine	2.1	0.53
L-Isoleucine	1.2	0.30
L-Leucine	Nil Added	Nil Added
L-Lysine	3.0	0.75
L-Methionine	0.86	0.22
L-Phenylalanine	2.3	0.58
L-Proline	6.3	1.58
L-Serine	1.9	0.48
L-Threonine	2.1	0.53
L-Tryptophan	0.79	0.20
L-Tyrosine	2.3	0.58
L-Valine	1.4	0.35
L-Carnitine	0.04	0.01
Taurine	0.14	0.04
L-Glutamine	0.32	0.08

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	332 (8.3)	83 (2.1)
Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62	15.5
Choline, mg	430	108
Inositol, mg	80	20
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37	9.3
Chromium, mcg	26	6.5
Selenium, mcg	58	14.5
Sodium, mg	560	140
Potassium, mg	700	175
Chloride, mg	560	140

Ingredients:

Sugar, L-Lysine L-Glutamate, L-Proline, Glycine, Corn Syrup Solids, Calcium Phosphate Dibasic, L-Arginine, L-Aspartic Acid, L-Phenylalanine, Artificial Flavor, L-Tyrosine, L-Alanine, L-Threonine, Citric Acid, L-Histidine, L-Serine, Magnesium Acetate, L-Valine, L-Cystine, L-Isoleucine, Tripotassium Citrate, Choline Bitartrate, Sodium Chloride, L-Methionine, L-Glutamic Acid, L-Tryptophan, Soy Lecithin, Disodium Hydrogen Phosphate, Dipotassium Hydrogen Phosphate, L-Glutamine, Tricalcium Phosphate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Beta-Carotene (For Color), Chromium Chloride, Beet Juice Concentrate (For Color), Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy.

GA-1 Anamix® Early Years

A lysine-free, low tryptophan powdered infant formula with iron, for the dietary management of glutaric aciduria type 1 (GA-1). Contains DHA and ARA, and a unique blend of prebiotics.

Main Features:

- Lysine-free, low tryptophan powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H_2O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Indications:

- Glutaric aciduria type 1

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
90217	49735-0102-17	B4162	6 x 400 g (14.1 oz)	1892

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	473	350
Protein Equivalent,g	13.5	10.0
Fat, g	23.0	17.0
Saturated, g	7.5	5.6
Monounsaturated, g	9.4	7.0
Polyunsaturated, g	5.0	3.7
DHA, mg	70.0	51.9
ARA, mg	140	104
Linoleic Acid,mg	3500	2593
Carbohydrate, g	53.0	39.3
Fiber, g	5.3	3.9
GOS, g	4.7	3.5
FOS, g	0.55	0.41
Amino Acids, g		
L-Alanine	0.68	0.50
L-Arginine	1.18	0.87
L-Aspartic Acid	0.98	0.73
L-Cystine	0.45	0.33
L-Glutamic Acid	1.33	0.99
L-Glutamine	0.11	0.08
Glycine	1.06	0.79
L-Histidine	0.68	0.50
L-Isoleucine	1.06	0.79
L-Leucine	1.81	1.34
L-Lysine	Nil Added	Nil Added
L-Methionine	0.29	0.21
L-Phenylalanine	0.80	0.59
L-Proline	1.29	0.96
L-Serine	0.80	0.59
L-Threonine	0.89	0.66
L-Tryptophan	0.09	0.07
L-Tyrosine	0.80	0.59
L-Valine	1.16	0.86
L-Carnitine	0.01	0.01
Taurine	0.03	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1305(392)	967(290)
Vitamin D3, IU (mcg)	348(8.7)	258(6.4)
Vitamin E, IU (mg α-TE)	10.9 (7.3)	8.1 (5.4)
Vitamin K, mcg	38.0	28.1
Thiamine, mcg	500	370
Riboflavin, mcg	500	370
Vitamin B_6, mcg	500	370
Vitamin B_{12}, mcg	1.2	0.89
Niacin, mcg	2200	1630
Folic Acid, mcg	55.0	40.7
Pantothenic Acid, mcg	2800	2074
Biotin, mcg	18.2	13.5
Vitamin C, mg	49.0	36.3
Choline, mg	91.0	67.4
Inositol, mg	98.0	72.6
Minerals		
Calcium, mg	371	275
Phosphorus, mg	270	200
Magnesium, mg	52.5	38.9
Iron, mg	7.3	5.4
Zinc, mg	5.2	3.9
Manganese, mcg	390	289
Copper, mcg	390	289
Iodine, mcg	82.5	61.1
Molybdenum, mcg	10.9	8.1
Chromium, mcg	12.5	9.3
Selenium, mcg	14.1	10.4
Sodium, mg	171	127
Potassium, mg	454	336
Chloride, mg	321	238

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosacharides (GOS) (Milk), L-Leucine, L-Glutamic Acid, L-Proline, L-Arginine, L-Valine, L-Isoleucine, Tricalcium Phosphate, Glycine, L-Aspartic Acid, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Threonine, L-Tyrosine, L-Phenylalanine, L-Serine, L-Histidine, L-Alanine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Cystine, Sodium Phosphate Dibasic, Magnesium Acetate, *M. alpina* Oil*, L-Methionine, Choline Bitartrate, *C. cohnii* Oil**, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Tryptophan, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D_3, Cyanocobalamin

Contains: Soy Oil, Coconut Oil, Milk.

*A source of Arachidonic Acid (ARA)
**A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL

GlutarAde® Essential

A lysine-free and low tryptophan powdered medical food for the dietary management of glutaric aciduria type 1 (GA-1) in children and adults, including pregnant women and women of child bearing age.

Main Features:

- Lysine free
- Amino acid profile specifically designed for GA-1; clinically researched in two studies†
- Contains arginine and 150 mg of tryptophan per 100 g of powder
- Contains a source of Omega-3 fatty acids
- Provides 25 g of protein equivalent per 100 g of powder
- Available in Vanilla flavor
- Osmolality (at 0.64 kcal/mL): 797 mOsm/kg H_2O based on dilution of 40 g powder (1 scoop) to 7 fl oz (210 mL) water
- Displacement: 0.75 mL/g

Indications:

- Glutaric aciduria type 1

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
120462	00847-0754-22	B4157 or B4162	4 x 454 g (1 lb)	1621

WIC†: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

† Strauss KA, et al. Mol Genet Metab. 2011;104:93-106 and Strauss, KA, et al. Mol Genet Metab. 2020;131:325-40.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	357	143
Protein Equivalent, g	25	10
Fat, g	9.7	3.9
Saturated, g	4.3	1.7
Monounsaturated, g	3.6	1.5
Polyunsaturated, g	1.7	0.7
Linoleic Acid, mg	1478	591
α-Linolenic Acid, mg	375	150
Carbohydrate, g	44	18
Fiber, g	3.9	1.6
Amino Acids, g		
L-Alanine	1.20	0.48
L-Arginine	2.7	1.08
L-Asparagine	1.8	0.72
L-Cystine	0.45	0.18
L-Glutamic Acid	0.9	0.36
L-Glutamine	4.51	1.8
Glycine	0.6	0.24
L-Histidine	0.9	0.36
L-Isoleucine	2.1	0.84
L-Leucine	3.46	1.38
L-Lysine	Nil Added	Nil Added
L-Methionine	1.02	0.41
L-Ornithine	0.6	0.24
L-Phenylalanine	1.59	0.64
L-Proline	1.5	0.6
L-Serine	0.6	0.24
L-Threonine	1.59	0.64
L-Tryptophan	0.15	0.06
L-Tyrosine	1.8	0.72
L-Valine	2.4	0.96
L-Carnitine	0.04	0.01
Taurine	0.15	0.06

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	1700 (637)	680 (255)
Vitamin D_3, IU (mcg)	600 (15)	240 (6)
Vitamin E, IU (mg α-TE)	19.1 (12.8)	7.6 (5.1)
Vitamin K, mcg	70	28
Thiamine, mg	1.5	0.6
Riboflavin, mg	1.5	0.6
Vitamin B_{6}, mg	1.4	0.56
Vitamin B_{12}, mcg	3	1.2
Niacin, mg	15.5	6.2
Folic Acid, mcg	300	120
Pantothenic Acid, mg	7.5	3
Biotin, mcg	30	12
Vitamin C, mg	60	24
Choline, mg	313	125
Inositol, mg	50	20
Minerals:		
Calcium, mg	1206	482
Phosphorus, mg	787	315
Magnesium, mg	201	80
Iron, mg	11.3	4.5
Zinc, mg	10	4
Manganese, mg	1.9	0.76
Copper, mcg	1000	400
Iodine, mcg	115	46
Molybdenum, mcg	31	12.4
Chromium, mcg	21	8.6
Selenium, mcg	63	25
Sodium, mg	293	117
Potassium, mg	874	350
Chloride, mg	475	190

Ingredients:

Sugar, Maltodextrin, Dextrin, L-Glutamine, L-Leucine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), Natural and Artificial Flavors, L-Arginine, Dicalcium Phosphate, High Oleic Sunflower Oil, L-Valine, L-Isoleucine, L-Asparagine Monohydrate, L-Tyrosine, Canola Oil, Sunflower Oil, L-Phenylalanine, L-Threonine, L-Proline, Potassium Citrate, Tricalcium Phosphate, L-Ornithine-Alpha Ketoglutarate, L-Alanine, L-Methionine, Sodium Citrate, Potassium Chloride, L-Glutamic Acid, L-Histidine, Choline Bitartrate, Glycine, L-Serine, L-Cystine, Flaxseed Oil, Magnesium Oxide, Citric Acid Esters of Mono- and Diglycerides (CITREM), Modified Corn Starch, Silicon Dioxide, L-Tryptophan, Taurine, Sodium Chloride, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate , L-Carnitine, Sunflower Lecithin, Niacinamide, Calcium Phosphate, Zinc Oxide, Ascorbyl Palmitate, Sucralose, Calcium D-Pantothenate, Copper Gluconate, Vitamin K_1, Vitamin D_3, Manganese Sulfate, Vitamin A Palmitate , Mono- and Diglycerides, D-Biotin , Beta-Carotene , Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Thiamine Mononitrate, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

GlutarAde® Amino Acid Blend

A lysine-free and low tryptophan powdered medical food for the dietary management of glutaric aciduria type 1 (GA-1) in children and adults.

Main Features:

- Lysine free
- Amino acid profile specifically designed for GA-1; clinically researched in two studies†
- Contains arginine and 480 mg of tryptophan per 100 g of powder
- Does not contain fat, carbohydrates, vitamins or minerals
- 40 calories per serving
- Provides 81 g of protein equivalent per 100 g of powder
- Unflavored powder
- Displacement: 0.48 mL/g

Indications:

- Glutaric aciduria type 1

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
120461	00847-0750-00	B4155 or B9998	4 x 454 g (1 lb)	1471

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	324	40
Protein Equivalent, g	81	10
Fat, g	0	0
Carbohydrate, g	0	0
Sodium, mg	355	44

Amino Acids, g	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
L-Alanine	3.86	0.48
L-Arginine	8.69	1.07
L-Asparagine	5.79	0.71
L-Cystine	1.45	0.18
L-Glutamic Acid	2.90	0.36
L-Glutamine	14.48	1.79
Glycine	1.93	0.24
L-Histidine	2.90	0.36
L-Isoleucine	6.76	0.83
L-Leucine	11.10	1.37
L-Lysine	Nil Added	Nil Added
L-Methionine	3.28	0.41
L-Ornithine	1.93	0.24
L-Phenylalanine	5.12	0.63
L-Proline	4.83	0.60
L-Serine	1.93	0.24
L-Threonine	5.12	0.63
L-Tryptophan	0.48	0.06
L-Tyrosine	5.79	0.71
L-Valine	7.72	0.95
L-Carnitine	0.20	0.03
Taurine	0.48	0.06

Ingredients:

L-Glutamine, L-Leucine, L-Arginine, L-Valine, L-Isoleucine, L-Asparagine Monohydrate, L-Tyrosine, L-Phenylalanine, L-Threonine, L-Proline, L-Ornithine-Alpha Ketoglutarate, L-Alanine, L-Methionine, L-Glutamic Acid, L-Histidine, Glycine, L-Serine, L-Cystine, Taurine, L-Tryptophan, Silicon Dioxide, L-Carnitine.

Note: Must be combined with an appropriate vitamin & mineral supplement when taken as the sole source of GA-1 medical food.

† Strauss KA, et al. Mol Genet Metab. 2011;104:93-106 and Strauss, KA, et al. Mol Genet Metab. 2020;131:325-40.

HCU Anamix® Early Years

A methionine-free powdered infant formula with iron, for the dietary management of vitamin B_6 non-responsive homocystinuria (HCU) or hypermethioninemia. Contains DHA and ARA, and a unique blend of prebiotics.

Main Features:

- Methionine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H_2O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Indications:

- Vitamin B_6 non-responsive homocystinuria
- Hypermethioninemia

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
90169	49735-0101-69	B4162	6 x 400 g (14.1 oz)	1892

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	473	350
Protein Equivalent,g	13.5	10.0
Fat, g	23.0	17.0
Saturated, g	7.5	5.6
Monounsaturated, g	9.4	7.0
Polyunsaturated, g	5.0	3.7
DHA, mg	70.0	51.9
ARA, mg	140	104
Linoleic Acid,mg	3500	2593
Carbohydrate, g	53.0	39.3
Fiber, g	5.3	3.9
GOS, g	4.7	3.5
FOS, g	0.55	0.41
Amino Acids, g		
L-Alanine	0.64	0.47
L-Arginine	1.09	0.81
L-Aspartic Acid	0.93	0.69
L-Cystine	0.41	0.30
L-Glutamic Acid	1.22	0.90
L-Glutamine	0.11	0.08
Glycine	0.99	0.73
L-Histidine	0.62	0.46
L-Isoleucine	0.98	0.73
L-Leucine	1.67	1.24
L-Lysine	1.14	0.84
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	0.74	0.55
L-Proline	1.18	0.87
L-Serine	0.73	0.54
L-Threonine	0.82	0.61
L-Tryptophan	0.33	0.24
L-Tyrosine	0.74	0.55
L-Valine	1.07	0.79
L-Carnitine	0.01	0.01
Taurine	0.03	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1305(392)	967(290)
Vitamin D_3, IU (mcg)	348(8.7)	258(6.4)
Vitamin E, IU (mg α-TE)	10.9 (7.3)	8.1 (5.4)
Vitamin K, mcg	38.0	28.1
Thiamine, mcg	500	370
Riboflavin, mcg	500	370
Vitamin B_6, mcg	500	370
Vitamin B_{12}, mcg	1.2	0.89
Niacin, mcg	2200	1630
Folic Acid, mcg	55.0	40.7
Pantothenic Acid, mcg	2800	2074
Biotin, mcg	18.2	13.5
Vitamin C, mg	49.0	36.3
Choline, mg	91.0	67.4
Inositol, mg	98.0	72.6
Minerals		
Calcium, mg	371	275
Phosphorus, mg	270	200
Magnesium, mg	52.5	38.9
Iron, mg	7.3	5.4
Zinc, mg	5.2	3.9
Manganese, mcg	390	289
Copper, mcg	390	289
Iodine, mcg	82.5	61.1
Molybdenum, mcg	10.9	8.1
Chromium, mcg	12.5	9.3
Selenium, mcg	14.1	10.4
Sodium, mg	171	127
Potassium, mg	454	336
Chloride, mg	321	238

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-Hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) (Milk), L-Lysine L-Glutamate, L-Leucine, L-Proline, Tricalcium Phosphate, L-Arginine, L-Valine, Glycine, L-Isoleucine, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Aspartic Acid, L-Threonine, L-Serine, L-Phenylalanine, L-Tyrosine, L-Alanine, L-Histidine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, Sodium Phosphate Dibasic, L-Cystine, Magnesium Acetate, *M. alpina* Oil*, L-Tryptophan, Choline Bitartrate, *C. cohnii* Oil**, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy Oil, Coconut Oil, Milk.

*A source of Arachidonic Acid (ARA)
**A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL

HCU Anamix® Next

A methionine-free, powdered medical food for the dietary management of homocystinuria (HCU) in individuals over 1 year of age.

Main Features:

- Methionine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals, and trace elements
- Provides 28 g of protein equivalent and 12.5 g of fat per 100 g of powder
- Available in Plain flavor
- Osmolality (at 1.1 kcal/mL): 1340 mOsm/kg H_2O based on dilution of 36 g powder (approx 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

Indications:

- Vitamin B_6 non-responsive homocystinuria
- Hypermethioninemia

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
89470	49735-0194-70	B4162 or B4157	6 x 400 g (14.1 oz)	1540

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	385	138
Protein Equivalent, g	28	10
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g	43.2	15.4
Fiber, g	11.2	4.0
Soluble, g	8.0	2.9
Insoluble, g	3.2	1.1
Amino Acids, g		
L-Alanine	1.40	0.50
L-Arginine	2.25	0.80
L-Aspartic Acid	2.00	0.71
L-Cystine	1.50	0.54
L-Glutamine	2.60	0.93
Glycine	2.13	0.76
L-Histidine	1.22	0.44
L-Isoleucine	2.10	0.75
L-Leucine	3.46	1.24
L-Lysine	2.44	0.87
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	1.50	0.54
L-Proline	2.52	0.90
L-Serine	1.57	0.56
L-Threonine	2.00	0.71
L-Tryptophan	0.50	0.18
L-Tyrosine	1.60	0.57
L-Valine	2.30	0.82
L-Carnitine	0.02	0.01
Taurine	0.05	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1399(420)	500(150)
Vitamin D_3, IU (mcg)	840(21.0)	300(7.5)
Vitamin E, IU (mg α-TE)	12.5 (8.4)	4.5 (3.0)
Vitamin K, mcg	14.0	5.0
Thiamine, mg	0.73	0.26
Riboflavin, mg	0.73	0.26
Vitamin B_6, mg	0.73	0.26
Vitamin B_{12}, mcg	1.3	0.46
Niacin, mg	2.0	0.71
Folic Acid, mcg	210	75
Pantothenic Acid, mg	4.2	1.5
Biotin, mcg	11.2	4.0
Vitamin C, mg	42	15
Choline, mg	224	80
Inositol, mg	56	20
Minerals		
Calcium, mg	980	350
Phosphorus, mg	641	229
Magnesium, mg	113	40.4
Iron, mg	10	3.6
Zinc, mg	4.9	1.8
Manganese, mg	0.92	0.33
Copper, mcg	560	200
Iodine, mcg	139	49.6
Molybdenum, mcg	25.5	9.1
Chromium, mcg	10.2	3.6
Selenium, mcg	28.2	10.1
Sodium, mg	280	100
Potassium, mg	445	159
Chloride, mg	406	145

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Arginine L-Aspartate, L-Leucine, Fructo-oligosaccharides, L-Lysine Acetate, Inulin, Corn Starch, L-Glutamine, Calcium Phosphate Dibasic, L-Proline, Microcrystalline Cellulose, L-Valine, Artificial Flavor, Glycine, L-Isoleucine, L-Threonine, Gum Arabic, L-Tyrosine, L-Serine, L-Cystine, L-Phenylalanine, L-Alanine, Tripotassium Citrate, Trisodium Citrate, L-Histidine, Calcium Chloride, Magnesium Hydrogen Phosphate, Maltodextrin, Choline Bitartrate, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Tryptophan, *C. cohnii* Oil*, Magnesium L-Aspartate, Tricalcium Citrate, L-Ascorbic Acid, Soy Fiber, M-Inositol, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-Alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin.

Contains: Coconut Oil, Soy.

* A source of Docosahexaenoic Acid (DHA)

HCU Maxamum®

A methionine-free powdered medical food for the dietary management of vitamin B_6 non-responsive homocystinuria (HCU) or hypermethioninemia in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Methionine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- Provides 40 g of protein equivalent (PE) per 100 g of powder
- Available in Orange flavor
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg H_2O):

Dilution	
1 to 7	800
1 to 5	1190

- Displacement: 0.6 mL/g

Indications:

- Vitamin B_6 non-responsive homocystinuria
- Hypermethioninemia

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
175750	49735-0177-95	B4157 or B4162	6 x 454 g (1 lb)	1385

WIC†: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40	10
Fat, g	<1.0	<0.25
Carbohydrate, g	34.0	8.5
Amino Acids, g		
L-Alanine	1.8	0.45
L-Arginine	3.2	0.80
L-Aspartic Acid	2.7	0.68
L-Cystine	1.2	0.30
L-Glutamic Acid	3.6	0.90
L-Glutamine	0.32	0.08
Glycine	2.8	0.70
L-Histidine	1.8	0.45
L-Isoleucine	2.8	0.70
L-Leucine	4.9	1.23
L-Lysine	3.3	0.83
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	2.2	0.55
L-Proline	3.4	0.85
L-Serine	2.1	0.53
L-Threonine	2.4	0.60
L-Tryptophan	0.95	0.24
L-Tyrosine	2.2	0.55
L-Valine	3.1	0.78
L-Carnitine	0.04	0.01
Taurine	0.14	0.04

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	332 (8.3)	83 (2.1)
Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62	15.5
Choline, mg	430	108
Inositol, mg	80	20
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37	9.3
Chromium, mcg	26	6.5
Selenium, mcg	58	14.5
Sodium, mg	560	140
Potassium, mg	700	175
Chloride, mg	560	140

Ingredients:

Sugar, L-Lysine L-Glutamate, Corn Syrup Solids, L-Leucine, Calcium Phosphate Dibasic, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, L-Aspartic Acid, L-Threonine, Artificial Flavor, L-Phenylalanine, L-Tyrosine, L-Serine, Citric Acid, Magnesium Acetate, L-Alanine, L-Histidine, Tripotassium Citrate, L-Cystine, Choline Bitartrate, L-Tryptophan, Sodium Chloride, Soy Lecithin, Disodium Hydrogen Phosphate, Dipotassium Hydrogen Phosphate, L-Glutamine, Tricalcium Phosphate, L-Glutamic Acid, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Beta-Carotene (For Color), Chromium Chloride, Beet Juice Concentrate (For Color), Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy.

HCU Lophlex® LQ

A methionine-free*, ready-to-drink medical food containing amino acids, carbohydrates, vitamins, minerals and DHA, based on mixed fruit juices (from concentrate) with natural flavor; for the dietary management of homocystinuria (HCU) in individuals 4 years and older, including pregnant women and women of child-bearing age.

Main Features:

- Methionine free*
- Low volume: provides 20 g PE in just 4.2 fl oz (125 mL)
- Convenient ready-to-drink
- No artificial flavors
- Contains 44.1% juice
- Provides 150 mg of DHA per pouch
- Available in Mixed Berry Blast flavor
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg H_2O

Indications:

- Vitamin B_6 non-responsive homocystinuria
- Hypermethioninemia

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code†	Product Packaging	Calories Per Pouch
82111	49735-0167-48	B4157 or B4162	30 x 4.2 fl oz (125 mL)	120

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

† S9435 = For individuals who submit their bills to insurance on their own.

*May contain traces of methionine from fruit juice concentrate at a level of <2 mg per 100 mL.

Nutrition Information:

Nutrients	Per Pouch (4.2 fl oz)	Per 10 g Protein Equivalent
Calories	120	60
Protein Equivalent, g	20	10
Fat, g	0.44	0.22
DHA, mg	150	75
Carbohydrate, g	9.3	4.7
Fiber, g	0.50	0.25
Amino Acids, g		
L-Alanine	1.18	0.59
L-Arginine	1.50	0.75
L-Aspartic Acid	1.73	0.87
L-Cystine	0.98	0.49
Glycine	1.60	0.80
L-Histidine	0.85	0.43
L-Isoleucine	1.35	0.68
L-Leucine	2.30	1.15
L-Lysine	1.55	0.78
L-Methionine	Trace*	Trace*
L-Phenylalanine	1.00	0.50
L-Proline	2.03	1.02
L-Serine	1.38	0.69
L-Threonine	1.13	0.57
L-Tryptophan	0.45	0.23
L-Tyrosine	1.65	0.83
L-Valine	1.45	0.73
L-Carnitine	0.01	0.01
Taurine	0.06	0.03

Vitamins	Per Pouch (4.2 fl oz)	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	949(285)	475(143)
Vitamin D_3, IU (mcg)	320(8.0)	160(4.0)
Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
Vitamin K, mcg	24.9	12.5
Thiamine, mg	0.54	0.27
Riboflavin, mg	0.50	0.25
Vitamin B_6, mg	0.58	0.29
Vitamin B_{12}, mcg	1.8	0.90
Niacin, mg	7.1	3.6
Folic Acid, mcg	120	60.0
Pantothenic Acid, mg	1.8	0.9
Biotin, mcg	53.4	26.7
Vitamin C, mg	17.8	8.9
Choline, mg	153	76.5
Inositol, mg	40.6	20.3
Minerals		
Calcium, mg	319	160
Phosphorus, mg	244	122
Magnesium, mg	96.3	48.2
Iron, mg	5.1	2.6
Zinc, mg	3.8	1.9
Manganese, mg	0.56	0.28
Copper, mcg	56.3	28.2
Iodine, mcg	56.3	28.2
Molybdenum, mcg	25.0	12.5
Chromium, mcg	10.8	5.4
Selenium, mcg	26.8	13.4
Sodium, mg	<25.0	<12.5
Potassium, mg	90	45
Chloride, mg	<25.0	<12.5

Ingredients:

Water, Apple Juice Concentrate (34.1%), Grape Juice Concentrate (6.9%), Blackcurrant Juice Concentrate (2.5%), L-Arginine L-Aspartate, L-Leucine, L-Lysine Acetate, Citric Acid, L-Proline, L-Tyrosine, Glycine, L-Valine, L-Serine, L-Isoleucine, Corn Syrup Solids, Dicalcium Phosphate, L-Alanine, L-Threonine, L-Phenylalanine, L-Cystine, L-Histidine, Elderberry Juice Concentrate (0.6%), Maltodextrin, Magnesium L-Aspartate, Magnesium Acetate, L-Tryptophan, Choline Bitartrate, *C. cohnii* Oil**, Sugar, Microcrystalline Cellulose, Natural Flavor, Fruit Concentrate, L-Ascorbic Acid, Taurine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate, Sucralose, Acesulfame Potassium, Ferrous Lactate, Sodium Benzoate, Zinc Sulfate, L-Carnitine, Niacinamide, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

**A Source of Docosahexaenoic Acid (DHA).

MMA/PA Anamix® Early Years

A methionine-, threonine-, and valine-free, low isoleucine powdered infant formula with iron, for the dietary management of methylmalonic or propionic acidemia (MMA/PA). Contains DHA and ARA, and a unique blend of prebiotics.

Main Features:

- A methionine-, threonine-, and valine-free, low isoleucine powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H_2O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Indications:

- Methylmalonic acidemia
- Propionic acidemia

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
90215	49735-0102-15	B4162	6 x 400 g (14.1 oz)	1892

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	473	350
Protein Equivalent,g	13.5	10.0
Fat, g	23.0	17.0
Saturated, g	7.5	5.6
Monounsaturated, g	9.4	7.0
Polyunsaturated, g	5.0	3.7
DHA, mg	70.0	51.9
ARA, mg	140	104
Linoleic Acid,mg	3500	2593
Carbohydrate, g	53.0	39.3
Fiber, g	5.3	3.9
GOS, g	4.7	3.5
FOS, g	0.55	0.41
Amino Acids, g		
L-Alanine	1.60	1.19
L-Arginine	1.40	1.04
L-Aspartic Acid	1.27	0.94
L-Cystine	0.51	0.38
L-Glutamic Acid	1.59	1.18
L-Glutamine	0.11	0.08
Glycine	0.64	0.47
L-Histidine	0.94	0.70
L-Isoleucine	<0.01	<0.01
L-Leucine	2.12	1.57
L-Lysine	1.43	1.06
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	0.93	0.69
L-Proline	0.64	0.47
L-Serine	0.89	0.66
L-Threonine	Nil Added	Nil Added
L-Tryptophan	0.41	0.30
L-Tyrosine	0.93	0.69
L-Valine	Nil Added	Nil Added
L-Carnitine	0.01	0.01
Taurine	0.03	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1305(392)	967(290)
Vitamin D_3, IU (mcg)	348(8.7)	258(6.4)
Vitamin E, IU (mg α-TE)	10.9 (7.3)	8.1 (5.4)
Vitamin K, mcg	38.0	28.1
Thiamine, mcg	500	370
Riboflavin, mcg	500	370
Vitamin B_6, mcg	500	370
Vitamin B_{12}, mcg	1.2	0.89
Niacin, mcg	2200	1630
Folic Acid, mcg	55.0	40.7
Pantothenic Acid, mcg	2800	2074
Biotin, mcg	18.2	13.5
Vitamin C, mg	49.0	36.3
Choline, mg	91.0	67.4
Inositol, mg	98.0	72.6
Minerals		
Calcium, mg	371	275
Phosphorus, mg	270	200
Magnesium, mg	52.5	38.9
Iron, mg	7.3	5.4
Zinc, mg	5.2	3.9
Manganese, mcg	390	289
Copper, mcg	390	289
Iodine, mcg	82.5	61.1
Molybdenum, mcg	10.9	8.1
Chromium, mcg	12.5	9.3
Selenium, mcg	14.1	10.4
Sodium, mg	171	127
Potassium, mg	454	336
Chloride, mg	321	238

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) (Milk), L-Lysine L-Glutamate, L-Leucine, L-Alanine, L-Arginine, L-Aspartic Acid, Tricalcium Phosphate, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Histidine, L-Phenylalanine, L-Tyrosine, L-Serine, Glycine, L-Proline, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Cystine, L-Tryptophan, Sodium Phosphate Dibasic, Magnesium Acetate, *M. alpina* Oil*, Choline Bitartrate, *C. cohnii* Oil**, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D_3, Cyanocobalamin

Contains: Soy Oil, Coconut Oil, Milk.

*A source of Arachidonic Acid (ARA)
**A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL

MMA/PA Anamix® Next

A methionine-, threonine-, and valine-free, low isoleucine powdered medical food for the dietary management of methylmalonic acidemia (MMA) and propionic acidemia (PA) in individuals over 1 year of age.

Main Features:

- Methionine, threonine, and valine free; low in isoleucine
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals, and trace elements
- Provides 28 g of protein equivalent and 12.5 g of fat per 100 g of powder
- Available in Plain flavor
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg H_2O based on dilution of 36 g powder (approx 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

Indications:

- Methylmalonic acidemia
- Propionic acidemia

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
89472	49735-0194-72	B4162 or B4157	6 x 400 g (14.1 oz)	1508

WIC†: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	377	135
Protein Equivalent, g	28	10
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g	41.2	14.7
Fiber, g	11.2	4.0
Soluble, g	8.0	2.9
Insoluble, g	3.2	1.1
Amino Acids, g		
L-Alanine	3.42	1.22
L-Arginine	3.00	1.07
L-Aspartic Acid	2.72	0.97
L-Cystine	1.56	0.56
L-Glutamine	3.61	1.29
Glycine	1.37	0.49
L-Histidine	2.02	0.72
L-Isoleucine	<0.03	<0.01
L-Leucine	4.54	1.62
L-Lysine	3.05	1.09
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	1.99	0.71
L-Proline	1.37	0.49
L-Serine	1.98	0.71
L-Threonine	Nil Added	Nil Added
L-Tryptophan	0.69	0.25
L-Tyrosine	1.99	0.71
L-Valine	Nil Added	Nil Added
L-Carnitine	0.02	0.01
Taurine	0.06	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1748 (525)	628 (189)
Vitamin D_3, IU (mcg)	1052 (26.3)	379 (9.4)
Vitamin E, IU (mg α-TE)	15.6 (10.5)	5.6 (3.8)
Vitamin K, mcg	17.5	6.4
Thiamine, mg	0.91	0.33
Riboflavin, mg	0.91	0.33
Vitamin B_6, mg	0.91	0.33
Vitamin B_{12}, mcg	1.6	0.57
Niacin, mg	2.5	0.90
Folic Acid, mcg	263	93.9
Pantothenic Acid, mg	5.3	1.9
Biotin, mcg	14.0	5.0
Vitamin C, mg	52.5	18.8
Choline, mg	280	100
Inositol, mg	70	25.0
Minerals		
Calcium, mg	1225	438
Phosphorus, mg	801	286
Magnesium, mg	140	50.0
Iron, mg	12.5	4.5
Zinc, mg	6.1	2.2
Manganese, mg	1.2	0.43
Copper, mcg	700	250
Iodine, mcg	174	62.1
Molybdenum, mcg	31.9	11.4
Chromium, mcg	12.8	4.6
Selenium, mcg	35.3	12.6
Sodium, mg	350	125
Potassium, mg	556	199
Chloride, mg	508	181

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Leucine, L-Lysine Acetate, L-Glutamine, Fructo-oligosaccharides, L-Alanine, Inulin, Calcium Phosphate Dibasic, L-Arginine, Corn Starch, L-Aspartic Acid, Microcrystalline Cellulose, Artificial Flavor, L-Histidine, L-Tyrosine, L-Phenylalanine, L-Serine, Gum Arabic, Tripotassium Citrate, Trisodium Citrate, L-Cystine, Glycine, L-Proline, Calcium Chloride, Magnesium Hydrogen Phosphate, Maltodextrin, Choline Bitartrate, L-Tryptophan, Tricalcium Citrate, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil*, L-Ascorbic Acid, M-Inositol, Soy Fiber, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Ascorbyl Palmitate, Potassium iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-Alpha Tocopherol, Vitamin D_2, Phylloquinone, D-Biotin, Cyanocobalamin

Contains: Coconut Oil, Soy.

*A source of Docosahexaenoic Acid (DHA)

MMA/PA Maxamum®

A methionine-, threonine-, and valine-free, low isoleucine medical food for the dietary management of vitamin B_{12} non-responsive methylmalonic acidemia (MMA) or propionic acidemia (PA) in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Methionine, threonine, and valine free; low in isoleucine
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- Provides 40 g of protein equivalent per 100 g of powder
- Available in Orange flavor
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg H_2O):

Dilution	
1 to 7	740
1 to 5	1070

- Displacement: 0.6 mL/g

Indications:

- Methylmalonic acidemia
- Propionic acidemia

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
175781	49735-0177-79	B4162 or B4157	6 x 454 g (1 lb)	1385

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40	10
Fat, g	<1.0	<0.25
Carbohydrate, g	34.0	8.5
Amino Acids, g		
L-Alanine	4.6	1.15
L-Arginine	4.1	1.03
L-Aspartic Acid	3.6	0.90
L-Cystine	1.5	0.38
L-Glutamic Acid	4.5	1.13
L-Glutamine	0.32	0.08
Glycine	1.8	0.45
L-Histidine	2.8	0.70
L-Isoleucine	<0.14	<0.05
L-Leucine	6.2	1.55
L-Lysine	4.2	1.05
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	2.7	0.68
L-Proline	1.9	0.48
L-Serine	2.6	0.65
L-Threonine	Nil Added	Nil Added
L-Tryptophan	1.2	0.30
L-Tyrosine	2.7	0.68
L-Valine	Nil Added	Nil Added
L-Carnitine	0.04	0.01
Taurine	0.14	0.04

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	332 (8.3)	83 (2.1)
Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62	15.5
Choline, mg	430	108
Inositol, mg	80	20
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37	9.3
Chromium, mcg	26	6.5
Selenium, mcg	58	14.5
Sodium, mg	560	140
Potassium, mg	700	175
Chloride, mg	560	140

Ingredients:

Sugar, L-Lysine L-Glutamate, L-Leucine, Corn Syrup Solids, L-Alanine, Calcium Phosphate Dibasic, L-Arginine, L-Aspartic Acid, L-Histidine, L-Phenylalanine, L-Tyrosine, L-Serine, Artificial Flavor, Citric Acid, Magnesium Acetate, Glycine, L-Proline, L-Cystine, L-Tryptophan, Tripotassium Citrate, Choline Bitartrate, Sodium Chloride, Soy Lecithin, Disodium Hydrogen Phosphate, Dipotassium Hydrogen Phosphate, L-Glutamine, Tricalcium Phosphate, L-Glutamic Acid, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Beta-Carotene (For Color), Chromium Chloride, Beet Juice Concentrate (For Color), Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Soy.

TYR Anamix® Early Years

A phenylalanine- and tyrosine-free powdered infant formula with iron, for the dietary management of tyrosinemia (TYR). Contains DHA and ARA, and a unique blend of prebiotics.

Main Features:

- A phenylalanine- and tyrosine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H_2O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Indications:

- Tyrosinemia

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
90218	49735-0102-18	B4162	6 x 400 g (14.1 oz)	1892

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	473	350
Protein Equivalent,g	13.5	10.0
Fat, g	23.0	17.0
Saturated, g	7.5	5.6
Monounsaturated, g	9.4	7.0
Polyunsaturated, g	5.0	3.7
DHA, mg	70.0	51.9
ARA, mg	140	104
Linoleic Acid,mg	3500	2593
Carbohydrate, g	53.0	39.3
Fiber, g	5.3	3.9
GOS, g	4.7	3.5
FOS, g	0.55	0.41
Amino Acids, g		
L-Alanine	0.68	0.50
L-Arginine	1.19	0.88
L-Aspartic Acid	1.00	0.74
L-Cystine	0.45	0.33
L-Glutamic Acid	1.34	0.99
L-Glutamine	0.11	0.08
Glycine	1.07	0.79
L-Histidine	0.68	0.50
L-Isoleucine	1.07	0.79
L-Leucine	1.83	1.36
L-Lysine	1.24	0.92
L-Methionine	0.29	0.21
L-Phenylalanine	Nil Added	Nil Added
L-Proline	1.30	0.96
L-Serine	0.80	0.59
L-Threonine	0.89	0.66
L-Tryptophan	0.36	0.27
L-Tyrosine	Nil Added	Nil Added
L-Valine	1.17	0.87
L-Carnitine	0.01	0.01
Taurine	0.03	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1305(392)	967(290)
Vitamin D_3, IU (mcg)	348(8.7)	258(6.4)
Vitamin E, IU (mg α-TE)	10.9 (7.3)	8.1 (5.4)
Vitamin K, mcg	38.0	28.1
Thiamine, mcg	500	370
Riboflavin, mcg	500	370
Vitamin B_6, mcg	500	370
Vitamin B_{12}, mcg	1.2	0.89
Niacin, mcg	2200	1630
Folic Acid, mcg	55.0	40.7
Pantothenic Acid, mcg	2800	2074
Biotin, mcg	18.2	13.5
Vitamin C, mg	49.0	36.3
Choline, mg	91.0	67.4
Inositol, mg	98.0	72.6
Minerals		
Calcium, mg	371	275
Phosphorus, mg	270	200
Magnesium, mg	52.5	38.9
Iron, mg	7.3	5.4
Zinc, mg	5.2	3.9
Manganese, mcg	390	289
Copper, mcg	390	289
Iodine, mcg	82.5	61.1
Molybdenum, mcg	10.9	8.1
Chromium, mcg	12.5	9.3
Selenium, mcg	14.1	10.4
Sodium, mg	171	127
Potassium, mg	454	336
Chloride, mg	321	238

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) (Milk), L-Lysine L-Glutamate, L-Leucine, L-Proline, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Isoleucine, L-Aspartic Acid, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Threonine, L-Serine, L-Alanine, L-Histidine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Cystine, Sodium Phosphate Dibasic, L-Tryptophan, Magnesium Acetate, *M. alpina* Oil*, L-Methionine, Choline Bitartrate, *C. cohnii* Oil**, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D_3, Cyanocobalamin

Contains: Soy Oil, Coconut Oil, Milk.

*A source of Arachidonic Acid (ARA)
**A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL

TYR Anamix® Next

A phenylalanine- and tyrosine-free, powdered medical food for the dietary management of tyrosinemia (TYR) in individuals over 1 year of age.

Main Features:

- Phenylalanine and tyrosine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals and trace elements
- Provides 28 g of protein equivalent (PE) and 12.5 g of fat per 100 g of powder
- Available in a Plain flavor
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg H_2O based on dilution of 36 g powder (approx 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

Indications:

- Tyrosinemia

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
89479	49735-0194-79	B4162 or B4157	6 x 400 g (14.1 oz)	1540

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	385	138
Protein Equivalent, g	28	10
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g	43.2	15.4
Fiber, g	11.2	4.0
Soluble	8.0	2.9
Insoluble	3.2	1.1
Amino Acids, g		
L-Alanine	4.71	1.68
L-Arginine	1.67	0.60
L-Aspartic Acid	0.41	0.15
L-Cystine	2.71	0.97
L-Glutamine	3.36	1.20
Glycine	3.94	1.41
L-Histidine	0.79	0.28
L-Isoleucine	1.66	0.59
L-Leucine	2.52	0.90
L-Lysine	2.24	0.80
L-Methionine	0.56	0.20
L-Phenylalanine	Nil Added	Nil Added
L-Proline	2.71	0.97
L-Serine	1.59	0.57
L-Threonine	2.94	1.05
L-Tryptophan	0.56	0.20
L-Tyrosine	Nil Added	Nil Added
L-Valine	1.96	0.70
L-Carnitine	0.02	0.01
Taurine	0.05	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1399(420)	500(150)
Vitamin D_3, IU (mcg)	840(210)	300(7.5)
Vitamin E, IU (mg α-TE)	12.5 (8.4)	4.5 (3.0)
Vitamin K, mcg	14.0	5.0
Thiamine, mg	0.73	0.26
Riboflavin, mg	0.73	0.26
VitaminB_6, mg	0.73	0.26
Vitamin B_{12}, mcg	1.3	0.46
Niacin, mg	2.0	0.71
Folic Acid, mcg	210	75
Pantothenic Acid, mg	4.2	1.5
Biotin, mcg	11.2	4.0
Vitamin C, mg	42	15
Choline, mg	224	80
Inositol, mg	56	20
Minerals		
Calcium, mg	980	350
Phosphorus, mg	641	229
Magnesium, mg	113	40.4
Iron, mg	10	3.6
Zinc, mg	4.9	1.8
Manganese, mg	0.92	0.33
Copper, mcg	560	200
Iodine, mcg	139	49.6
Molybdenum, mcg	25.5	9.1
Chromium, mcg	10.2	3.6
Selenium, mcg	28.2	10.1
Sodium, mg	280	100
Potassium, mg	445	159
Chloride, mg	406	145

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Alanine, Glycine, Fructo-oligosaccharides, L-Glutamine, L-Lysine Acetate, Inulin, L-Threonine, Corn Starch, L-Cystine, L-Proline, Calcium Phosphate Dibasic, L-Leucine, Microcrystalline Cellulose, Artificial Flavor, L-Valine, Gum Arabic, L-Arginine, L-Isoleucine, L-Serine, Tripotassium Citrate, Trisodium Citrate, Calcium Chloride, L-Histidine, Maltodextrin, Choline Bitartrate, Magnesium Hydrogen Phosphate, L-Methionine, L-Tryptophan, Magnesium L-Aspartate, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil*, Tricalcium Citrate, L-Ascorbic Acid, Soy Fiber, M-Inositol, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-Alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin

Contains: Coconut Oil, Soy.

*A source of Docosahexaenoic Acid (DHA)

TYR Lophlex® GMP MIX-IN

A powdered medical food, low in phenylalanine and tyrosine, containing a mix of glycomacropeptide (GMP), essential and non-essential amino acids with small amounts of carbohydrates and some minerals. For the dietary management of tyrosinemia (TYR) in individuals over 1 year of age.

Main Features:

- Low in phenylalanine and tyrosine
- A flexible source of GMP-based protein to help patients adhere to their nutritional goals
- The highest amount of protein per 100 g of powder of any TYR product
- Mix into TYR formula to increase protein from a GMP-based source
- Mixes easily with flavored drinks and foods for variety
- Provides only 40 kcal and less than 0.5 g of sugar per pouch
- No artifical flavors or colors

Indications:

- Tyrosinemia

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Pouch
135757	49735-0157-57	B4155	20 x 12.5 g (0.44 oz)	40

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

*S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 pouch)
Calories	324	40
Protein Equivalent, g	80	10
Fat, g	<0.1	<0.1
Carbohydrate, g	<1.0	<0.5
Amino Acids, g		
L-Alanine	3.2	0.40
L-Arginine	3.9	0.48
L-Aspartic Acid	4.7	0.59
L-Cystine	1.2	0.15
L-Glutamic Acid	10.8	1.35
Glycine	7.5	0.94
L-Histidine	3.9	0.49
L-Isoleucine	5.8	0.72
L-Leucine	11.6	1.45
L-Lysine	6.2	0.78
L-Methionine	1.9	0.23
L-Phenylalanine, mg	144	18.0
L-Proline	6.3	0.79
L-Serine	4.1	0.51
L-Threonine	9.0	1.13
L-Tryptophan	1.9	0.24
L-Tyrosine, mg	28	3.5
L-Valine	7.0	0.88
L-Carnitine	0.08	0.01
Taurine	0.24	0.03

Minerals	Per 100 g Powder	Per 10 g Protein Equivalent (1 pouch)
Calcium, mg	62.1	7.8
Phosphorus, mg	320	40.0
Potassium, mg	960	120
Sodium, mg	1125	141

Ingredients:

Glycomacropeptide (Milk), L-Leucine, Glycine, L-Lysine Acetate, L-Histidine, L-Arginine, L-Valine. Contains 2% or less of the following: L-Tryptophan, L-Cystine, L-Methionine, Corn Syrup Solids, Silicon Dioxide, Taurine, L-Carnitine.

Contains: Milk.

Contains 18 mg of phenylalanine and 3.5 mg tyrosine per 10 g protein equivalent

Note: Must be combined with an appropriate vitamin & mineral supplement when taken as a sole source of TYR medical food.

UCD Anamix® Infant

An essential amino acid-based powdered infant formula with iron, for the dietary management of urea cycle disorders (UCD); hyperammonemia, hyperornithinemia, homocitrullinemia (HHH) syndrome and gyrate atrophy.

UCD Anamix Infant is available under FDA enforcement discretion and therefore is imported with European labels in English and Spanish.

Main Features:

- Contains essential amino acids with increased level of branched-chain amino acids (BCAA)
- Includes DHA & ARA
- Contains a balanced mixture of essential amino acids, carbohydrates, fats, vitamins, minerals and trace elements
- Provides 7.5 g of protein equivalent (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 310 mOsm/kg H_2O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.67 mL/g

Indications:

- Urea Cycle Disorders
- Hyperammonemia, Hyperornithinemia, Homocitrullinemia (HHH) syndrome
- Gyrate atrophy

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
146539	49735-0155-51	B4162	6 x 400 g (14.1 oz)	1968

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g of powder	Per 10 g Protein Equivalent
Calories	492	656
Protein Equivalent, g	7.5	10.0
Fat, g	26.4	35.2
Saturated, g	10.4	13.9
Monounsaturated, g	11.7	15.6
Polyunsaturated, g	4.3	5.7
DHA, mg	130	173
ARA, mg	130	173
Linoleic Acid, mg	3.44	4.6
Carbohydrate, g	56.5	75.3
Fiber	0	0
Amino Acids, g		
L-Alanine	Nil Added	Nil Added
L-Arginine	Nil Added	Nil Added
L-Aspartic Acid	Nil Added	Nil Added
L-Cystine	0.27	0.36
L-Glutamine	Nil Added	Nil Added
Glycine	Nil Added	Nil Added
L-Histidine	0.32	0.43
L-Isoleucine	1.40	1.87
L-Leucine	2.40	3.20
L-Lysine	1.20	1.60
L-Methionine	0.25	0.33
L-Phenylalanine	0.42	0.56
L-Proline	Nil Added	Nil Added
L-Serine	Nil Added	Nil Added
L-Threonine	0.99	1.32
L-Tryptophan	0.30	0.40
L-Tyrosine	0.77	1.03
L-Valine	1.40	1.87
L-Carnitine	0.01	0.01
Taurine	0.04	0.05

Vitamins	Per 100 g of powder	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1435 (431)	1914 (575)
Vitamin D_3, IU (mcg)	472 (11.8)	629 (15.7)
Vitamin E, IU (mg α-TE)	17.5 (11.7)	23.3 (15.6)
Vitamin K, mcg	40.0	53.3
Thiamine, mcg	540	720
Riboflavin, mcg	540	720
Vitamin B_6, mcg	540	720
Vitamin B_{12}, mcg	1.3	1.7
Niacin, mcg	2500	3333
Folic Acid, mcg	58.1	77.5
Pantothenic Acid, mcg	3000	4000
Biotin, mcg	19.3	25.7
Vitamin C, mg	51.5	68.7
Choline, mg	154	205
Inositol, mg	104	139
Minerals		
Calcium, mg	670	893
Phophorus, mg	442	589
Magnesium, mcg	73.0	97.3
Iron, mg	8.7	11.6
Zinc, mg	6.1	8.1
Manganese, mcg	31.0	41.3
Copper, mcg	450	600
Iodine, mcg	99.4	133
Molybdenum, mcg	12.9	17.2
Chromium, mcg	14.8	19.7
Selenium, mcg	18.7	24.9
Sodium, mg	295	393
Potassium, mg	713	951
Chloride, mg	530	707

Ingredients:

Glucose Syrup, Vegetable Oils (High Oleic Sunflower Oil, Coconut Oil, Rapeseed Oil, Sunflower Oil), L-Leucine, Potassium Citrate, Calcium Phosphate, L-Lysine Hydrochloride, L-Valine, L-Isoleucine, Citric Acid Esters Of Mono- And Diglycerides Of Fatty Acids, L-Threonine, L-Tyrosine, Magnesium Acetate, Choline Bitartrate, Sodium Chloride, L-Phenylalanine, Sodium Hydrogen Phosphate, Calcium Glycerophosphate, L-Histidine, L-Tryptophan, Oil From *Crypthecodinium Cohnii**, L-Cystine, L-Methionine, Oil From *Mortierella Alpina***, Sucrose, Inositol, L-Ascorbic Acid, Antioxidants (Sunflower Lecithin, Ascorbyl Palmitate), Taurine, Ferrous Sulphate, Zinc Sulphate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Nicotinamide, Copper Sulphate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Retinyl Acetate, Potassium Iodide, Manganese Sulphate, Pteroylmonoglutamic Acid, Chromium Chloride, Phytomenadione, Sodium Selenite, Sodium Molybdate, D-Biotin, Cholecalciferol, Cyanocobalamin.

*A source of Docosahexaenoic Acid (DHA)
**A source of Arachidonic Acid (ARA)

UCD Anamix® Junior

A powdered medical food containing essential amino acids (with increased levels of branched chain amino acids (BCAAs) and tryptophan), carbohydrates, fat, vitamins and minerals; for the dietary management of urea cycle disorders (UCD); hyperammonemia, hyperornithinemia, homocitrullinemia (HHH) syndrome; and gyrate atrophy in individuals over 1 year of age.

Main Features:

- Contains essential amino acids to help maintain a positive nitrogen balance in UCD
- Amino acid profile rich in BCAAs for efficient and optimal protein synthesis for children with UCD
- Sufficient non-protein calories to help prevent catabolism
- Complete with essential vitamins and minerals
- Available in Unflavored and Vanilla flavor
- Osmolality: 1040 mOsm/kg H_2O based on a 1 to 3.5 dilution
- Displacement: 0.70 mL/g

Indications:

- Urea Cycle Disorders (UCD)
- Hyperammonemia, Hyperornithinemia, Homocitrullinemia (HHH) syndrome
- Gyrate atrophy

For details on administration and household measurements, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
59292 - Unflavored	49735-0192-92	B4157 or B4162	6 X 400 g (14.1 oz)	1540
59293 - Vanilla	49735-0192-93	B4157 or B4162	6 X 400 g (14.1 oz)	1540

WIC†: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

* S9435 = For individuals who submit their bills to insurance on their own.

Nutrition Information:

Nutrients	Per 100 g of powder	Per 10 g Protein Equivalent
Calories	385	321
Protein Equivalent, g	12.0	10.0
Fat, g	17.0	14.2
Saturated, g	1.9	1.6
Monounsaturated, g	10.8	9.0
Polyunsaturated, g	3.5	2.9
Linoleic Acid, mg	2786	2322
Carbohydrate, g	46.0	38.3
Amino Acids, g		
L-Alanine	Nil Added	Nil Added
L-Arginine	Nil Added	Nil Added
L-Asparagine	Nil Added	Nil Added
L-Aspartic Acid	Nil Added	Nil Added
L-Citrulline	Nil Added	Nil Added
L-Cystine	0.43	0.36
L-Glutamic Acid	Nil Added	Nil Added
L-Glutamine	Nil Added	Nil Added
Glycine	Nil Added	Nil Added
L-Histidine	0.51	0.43
L-Isoleucine	2.26	1.88
L-Leucine	3.82	3.18
L-Lysine	1.92	1.60
L-Methionine	0.40	0.33
L-Phenylalanine	0.67	0.56
L-Proline	Nil Added	Nil Added
L-Serine	Nil Added	Nil Added
L-Threonine	1.59	1.33
L-Tryptophan	0.48	0.40
L-Tyrosine	1.23	1.03
L-Valine	2.29	1.91
L-Carnitine	0.01	0.01
Taurine	0.07	0.06

Vitamins	Per 100 g of powder	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	3197(960)	2664(800)
Vitamin D_3, IU (mcg)	920(23.0)	767(19.2)
Vitamin E, IU (mg α-TE)	27.5 (18.5)	22.9 (15.4)
Vitamin K, mcg	92.2	76.8
Thiamine, mg	1.5	1.3
Riboflavin, mg	1.5	1.3
Vitamin B_6, mg	1.5	1.3
Vitamin B_{12}, mcg	3.8	3.2
Niacin, mg	9.6	8.0
Folic Acid, mcg	461	384
Pantothenic Acid, mg	6.1	5.1
Biotin, mcg	34.6	28.8
Vitamin C, mg	120	100
Choline, mg	480	400
Inositol, mg	108	90
Minerals		
Calcium, mg	1555	1296
Phosphorus, mg	1555	1296
Magnesium, mg	246	205
Iron, mg	26.9	22.4
Zinc, mg	21.1	17.6
Manganese, mg	3.6	3.0
Copper, mcg	1900	1583
Iodine, mcg	276	230
Molybdenum, mcg	63.4	52.8
Chromium, mcg	41.3	34.4
Selenium, mcg	76.8	64.0
Sodium, mg	1114	928
Potassium, mg	1613	1344
Chloride, mg	864	720

Ingredients:

Unflavored: Corn Syrup Solids, Refined Vegetable Oils (High Oleic Safflower, Canola, Fractionated Coconut), Sugar, L-Leucine, Sodium Phosphate Dibasic, Tripotassium Citrate, Tricalcium Citrate, Tricalcium Phosphate, L-Lysine Hydrochloride, L-Valine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, Choline Bitartrate, L-Tyrosine, Potassium Chloride, Citric Acid Ester of Mono- And Diglycerides (CITREM), L-Phenylalanine, L-Histidine, L-Tryptophan, L-Cystine, L-Methionine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, Taurine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, L-Carnitine, Calcium D-Pantothenate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Selenite, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Coconut Oil.

Vanilla: Corn Syrup Solids, Refined Vegetable Oils (High Oleic Safflower, Canola, Fractionated Coconut), Sugar, L-Leucine, Sodium Phosphate Dibasic, Tripotassium Citrate, Tricalcium Citrate, Artificial Flavor, Tricalcium Phosphate, L-Lysine Hydrochloride, L-Valine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, Choline Bitartrate, L-Tyrosine, Potassium Chloride, Citric Acid Ester of Mono- And Diglycerides (CITREM), L-Phenylalanine, L-Histidine, L-Tryptophan, L-Cystine, L-Methionine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, Taurine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, L-Carnitine, Calcium D-Pantothenate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Selenite, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Coconut Oil.

SOD Anamix® Early Years

A methionine- and cystine-free powdered infant formula for the dietary management of conditions requiring restriction of methionine and cystine (e.g. sulfite oxidase deficiency).

Main Features:

- Methionine- and cystine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H_2O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Indications:

- Sulfite oxidase deficiency (SOD)
- Other conditions requiring restriction of methionine and cystine

For details on administration and household measurements, please see the end of this section.

Additional Information:

Please note that this product is available by special order only.
For detailed information on SOD Anamix Early Years, please contact our Nutrition Services Department (800-365-7354).

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
90212 (Special Order)	49735-0102-12	B4162	3 x 400 g (14.1 oz)	1892

* S9435 = For individuals who submit their bills to insurance on their own.

XMet, XCys Maxamaid®

A methionine- and cystine-free powdered medical food for the dietary management of conditions requiring restriction of methionine and cystine (e.g. sulfite oxidase deficiency) in individuals over 1 year of age.

Main Features:

- Methionine and cystine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Provides 25 g of protein equivalent per 100 g of powder
- Unflavored powder
- Osmolality (mOsm/kg H_2O):

Dilution	
1 to 5	690
1 to 7	490

Indications:

- Sulfite oxidase deficiency (SOD)
- Other conditions requiring restriction of methionine and cystine

Additional Information:

Please note that this product is available by special order only.
For detailed information on XMet, XCys Maxamaid, please contact our Nutrition Services Department (800-365-7354).

Ordering Information:

Product Code	Product Packaging	Calories Per Can
116194 (Special Order)	500 g (17.6 oz)	1545

Additional Ingredient Lists

PKU Periflex® Junior Plus

Berry: Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Alanine, Glycine, Fructo-oligosaccharides, L-Glutamine, Inulin, Corn Starch, L-Tyrosine, Calcium Phosphate Dibasic, L-Lysine Acetate, L-Threonine, Microcrystalline Cellulose, L-Leucine, L-Proline, Artificial Flavor, Gum Arabic, L-Cystine, L-Arginine, L-Valine, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, L-Serine, Natural Flavor, Calcium Chloride, L-Methionine, L-Histidine, Maltodextrin, Choline Bitartrate, Magnesium Hydrogen Phosphate, Magnesium L-Aspartate, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil*, Malic Acid, L-Tryptophan, Tricalcium Citrate, L-Ascorbic Acid, Sucralose, Soy Fiber, M-Inositol, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Hydrochloride, Artificial Color (Beet Red), Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-Alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin.
Contains: Soy, Coconut Oil.

Orange: Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Alanine, Glycine, Fructo-oligosaccharides, L-Glutamine, Inulin, Corn Starch, L-Tyrosine, Calcium Phosphate Dibasic, L-Lysine Acetate, L-Threonine, Microcrystalline Cellulose, L-Leucine, L-Proline, Artificial Flavor, Gum Arabic, L-Cystine, L-Arginine, L-Valine, Citric Acid, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, L-Serine, Natural Flavors, Calcium Chloride, L-Methionine, L-Histidine, Maltodextrin, Choline Bitartrate, Magnesium Hydrogen Phosphate, Magnesium L-Aspartate, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil*, L-Tryptophan, Tricalcium Citrate, L-Ascorbic Acid, Sucralose, Soy Fiber, M-Inositol, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Artificial Colors (Beta-Carotene, Beet Red), Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-Alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin.
Contains: Soy, Coconut Oil.
*A source of Docosahexaenoic Acid (DHA)

PhenylAde® Essential Drink Mix

Orange Creme: Maltodextrin, Sugar, Dextrin, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), Natural and Artificial Flavors, L-Tyrosine, High Oleic Sunflower Oil, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, Calcium Phosphate, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, Corn Syrup Solids, L-Threonine, L-Isoleucine, Potassium Chloride, Citric Acid, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Citric Acid Esters of Mono- and Diglycerides (CITREM), Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon Dioxide, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, FD&C Yellow #6, Niacinamide, Ascorbyl Palmitate, Zinc Oxide, Copper Gluconate, Vitamin K_1, Vitamin D_3, Vitamin A Palmitate, Calcium D-Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Mononitrate, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

Strawberry: Maltodextrin, Sugar, Dextrin, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), L-Tyrosine, High Oleic Sunflower Oil, Corn Syrup Solids, L-Lysine Acetate, Natural and Artificial Flavors, L-Alanine, L-Leucine, L-Serine, L-Arginine, Calcium Phosphate, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, L-Threonine, L-Isoleucine, Potassium Chloride, Citric Acid, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Citric Acid Esters of Mono- and Diglycerides (CITREM), Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon Dioxide, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, Niacinamide, Ascorbyl Palmitate, Zinc Oxide, Copper Gluconate, Vitamin K_1, Vitamin D_3, Vitamin A Palmitate, Calcium D-Pantothenate, FD&C Red #40, FD&C Blue #1, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Mononitrate, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

Household Measurements

Measure	g Product	g Protein Equivalent
PKU Periflex Early Years		
Enclosed scoop	5.0	0.68
1 Tbsp	9.0	1.2
1 cup	144	19.4
MSUD Anamix Early Years		
Enclosed scoop	5.0	0.68
1 Tbsp	9.0	1.2
1 cup	140	19.4
GA-1, TYR, MMA/PA, HCU, IVA Anamix Early Years		
Enclosed scoop	5.0	0.68
1 Tbsp	8.8	1.2
1 cup	140	18.9
PKU Periflex Junior Plus (Plain)		
Enclosed scoop	9.0	2.5
1 Tbsp	8.7	2.4
1 cup	139	38.9
PKU Periflex Junior Plus (Flavors)		
Enclosed scoop	9.0	2.5
1 Tbsp	8.3	2.3
1 cup	132	37
TYR Anamix Next		
Enclosed scoop	9.0	2.5
1 Tbsp	8.6	2.4
1 cup	137	38.4
HCU Anamix Next		
Enclosed scoop	9.0	2.5
1 Tbsp	8.3	2.3
1 cup	133	37.2
IVA, MMA/PA Anamix Next		
Enclosed scoop	9.0	2.5
1 Tbsp	8.8	2.5
1 cup	140	39.2
UCD Anamix Junior Unflavored		
Enclosed scoop	5.0	0.60
1 Tbsp	9.0	1.1
1 cup	143	17.2

Measure	g Product	g Protein Equivalent
UCD Anamix Junior Vanilla		
Enclosed scoop	5.0	0.60
1 Tbsp	8.7	1.0
1 cup	139	16.7
Periflex Advance		
1 Tbsp	9.4	3.3
1 cup	150	53
PhenylAde Essential Drink Mix		
Enclosed scoop	40	10
1 Tbsp	10	2.5
1 cup	160	40
PhenylAde GMP Drink Mix		
Enclosed scoop or 1 pouch	33.3	10
1 Tbsp	6.6	2
1 cup	128	38.4
PhenylAde GMP Mix-In		
1 pouch	12.5	10
PhenylAde GMP ULTRA		
1 pouch	33.4	20
PhenylAde 60 Drink Mix		
Enclosed scoop	16.7	10
1 Tbsp	9.8	5.9
1 cup	148	90
PhenylAde MTE Amino Acid Blend		
Enclosed scoop or 1 pouch	12.8	10
1 Tbsp	8.5	6.6
1 cup	116	90
PhenylAde Amino Acid Blend		
Enclosed scoop	12.4	10
1 Tbsp	8.5	6.9
1 cup	116	94

Measure	g Product	g Protein Equivalent
GlutarAde Essential		
Enclosed scoop	40	10
1 Tbsp	10	2.5
1 cup	160	40
GlutarAde Amino Acid Blend		
Enclosed scoop	12.3	10
1 Tbsp	8.5	6.9
1 cup	116	94
Complex MSD Essential		
Enclosed scoop	40	10
1 Tbsp	9.8	2.4
1 cup	160	40
Complex MSD Amino Acid Blend		
Enclosed scoop	12.4	10
1 Tbsp	8.2	6.6
1 cup	124	100
Maxamum Range		
1 Tbsp	9	3.6
1 cup	145	58
TYR Lophlex GMP MIX-IN		
1 pouch	12.5	10

Household measures are based on standard US, dry household measures.* All measures are level and unpacked. These values are approximations only and have been provided for convenience: results can vary significantly based on the individual, device, and method. Nutricia North America recommends using a gram scale for greatest accuracy. The scoops Nutricia provides are validated for use with Nutricia formulas, so are preferable to household measures.

*US measures: 1 cup = 240 mL; ½ cup = 120 mL; ⅓ cup = 80 mL; ¼ cup = 60 mL; 1 Tbsp = 15 mL; 1 tsp = 5 mL; ½ tsp = 2.5 mL

PKU Periflex® & Anamix® Early Years

Powdered infant formulas with iron containing DHA and ARA, and a unique blend of prebiotic oligosaccharides.

Administration:

- Must be consumed in conjunction with a whole protein source (e.g. breast milk or standard infant formula) in quantities prescribed by a dietitian or physician to meet the general nutrition requirements to ensure normal growth and development.
- Formula dosage and dilution will vary depending on the age, body weight, medical condition and protein tolerance of the infant.

Mixing Instructions:

- To make a standard dilution (21 kcal/fl oz), add 1 unpacked level scoop (5 g) of powder to each fluid ounce of water. Only use the scoop provided. For accuracy formula should be weighed on a gram scale.
- PKU Periflex/Anamix Early Years may be mixed with warm or cool water that has been boiled. Do not boil formula or use a microwave to prepare or warm formula.

To make formula:

1) Wash hands thoroughly and clean the preparation area.
2) Pour the required amount of cooled, boiled water into the sterilized* feeding bottle.
3) Add the prescribed number of leveled scoops of formula to the water in the sterilized feeding bottle.
4) Place cap on the bottle and shake until the powder dissolves. Shake immediately before use.

Amount of Water	Amount of Powder	Approx. Protein Equiv.	Approx. Final Volume
5 fl oz (150 mL)	5 scoops (25 g)	3.4 g	5.6 fl oz (168 mL)
8 fl oz (240 mL)	8 scoops (40 g)	5.4 g	9 fl oz (270 mL)
12 fl oz (360 mL)	12 scoops (60 g)	8.1 g	13.5 fl oz (405 mL)

*Ask your baby's health care team if you need to use cooled, boiled water for mixing and if you need to boil (sterilize) bottles, nipples and rings before use.

Important Preparation Information: Freshly prepared formula is best. Formula prepared in advance must be cooled rapidly, stored in the refrigerator and used within 24 hours of preparation. Formula remaining in the bottle after one hour of feeding should be discarded. Powdered infant formula is not sterile.

Precautions:

- Do not boil formula or use a microwave to prepare or warm formula.
- Must be given under strict medical supervision to infants with a proven inborn error of metabolism. Not intended as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

Storage:

- Store unopened cans in a cool, dry place. Avoid extreme temperatures. Once opened, use contents within 2 weeks. Replace lid firmly after use.

PKU Periflex® Junior Plus & Anamix® Next

Medical foods for the dietary management of metabolic disorders in individuals over 1 year of age.

Administration:

- Must be consumed in conjunction with whole protein and other nutrients in quantities prescribed by a dietitian or physician to supply the fluid and general nutrition requirements.
- Intended for individuals over 1 year of age.
- Intake is dependent on the age, body weight and medical condition of the individual. Periflex Junior Plus or Anamix Next should be divided into equal portions and distributed throughout the day.

Mixing Instructions:

- Add the desired volume of water to a shaker or other container with a tight fitting lid. Then add the prescribed amount of powder and shake until fully blended together. Best served chilled.
- Standard solution is 3.5 fl oz (100 mL) water plus 36 g powder (approx. 4 scoops) made up to a final volume of approx. 4.3 fl oz (126 mL).

Freshly prepared formula is best. Refrigerate pre-mixed formula immediately and use within 24 hours of mixing. Shake immediately before use.

Dilution (kcal/mL)	Amount of Powder	Water Added	Approx. Final Volume
0.6	18 g (approx 2 scoops)	3.5 fl oz (100 mL)	3.8 fl oz (114 mL)
0.9	27 g (approx 3 scoops)	3.5 fl oz (100 mL)	4.0 fl oz (120 mL)
1.1	36 g (approx 4 scoops)	3.5 fl oz (100 mL)	4.2 fl oz (126 mL)

Precautions:

- Must only be given under strict medical supervision to individuals with proven inborn errors of metabolism. Not intended for infants. Not intended as sole source of nutrition. For oral and tube feeding. Not for parenteral use.

Storage:

- Store unopened can in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 2 weeks. Replace lid firmly after use.

Periflex® Advance and Periflex® LQ

Age-specific medical foods for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet phenylalanine and general nutrition requirements.
- Periflex Advance and Periflex LQ are intended for children and adults, including pregnant women and women of child-bearing age.
- Intake of Periflex is dependent on the age, bodyweight and medical condition of the individual. Periflex should be divided into equal portions and distributed throughout the day.

Mixing Instructions:

Periflex Advance

- Add the desired volume of water to a shaker or other container with a tight fitting lid. Then add the prescribed amount of powder and shake until fully blended together. Dilution guidelines are shown in the table that follows. Best served chilled.
- Periflex tastes great when combined with 1 fl oz (30 mL) of water for every 5 to 6 grams of powder.
- Once prepared, store formula in a refrigerator for no longer than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.

Dilution Guidelines for Periflex Advance

Volume of Water	Amount of Powder	Approx. Protein Equiv.
2 to 3 fl oz (60-90 mL)	16 g	6 g
4 to 5 fl oz (120-150 mL)	32 g	11 g
8 to 10 fl oz (240-300 mL)	64 g	22 g
16 to 20 fl oz (480-600 mL)	128 g	45 g

Dilutions are guidelines only. Periflex Advance may be given in a more concentrated form (e.g. a paste or concentrated drink) by using less water. If consumed in a concentrated form, water or other drinks should also be consumed at the same time.

Periflex LQ

Shake well before use. Best served chilled. Once opened, store any remaining formula in a refrigerator for no more than 24 hours. Shake formula immediately before use.

Precautions:

- Must only be given under strict medical supervision to individuals with proven phenylketonuria. Not intended for infants. Not intended as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

Storage:

- Store unopened cans of Periflex Advance in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 1 month. Replace lid firmly after use.
- Store Periflex LQ in a cool dry place away from sunlight.

Maxamum®

Age-specific medical foods for the dietary management of metabolic disorders in older children and adults, including pregnant women and women of child-bearing age.

Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet protein and general nutrition requirements.
- Recommended intake will vary depending on the age, body weight and medical condition of the individual. Intake is adjusted to maintain normal growth and development. For accuracy, weigh medical food on a gram scale. The daily intake should be divided into equal portions and distributed throughout the day.
- Intended for older children and adults, including pregnant women and women of child-bearing age.

Mixing Instructions:

- Best served with meals.
- Make a paste of the prescribed amount of powder with a small volume of chilled water. Gradually add sufficient water to make the desired volume.
- For best taste, consume immediately. Larger volumes of prepared formula should be refrigerated and used within 24 hours of preparation. Shake or stir prepared formula immediately before use.

Dilution	Amount of Powder	Volume of Water	Approx. PE
1 to 7	35 g	245 mL (approx. 8 fl oz)	14 g
1 to 5	35 g	175 mL (approx. 6 fl oz)	14 g

- It is recommended that Maxamum be prepared at a 1 to 7 dilution initially and advanced to a 1 to 5 dilution. These dilutions are guidelines only. May be given in a more concentrated form (e.g. drink or paste). If so, water or diluted drinks should be offered at the same time.

Precautions:

- Must only be given under strict medical supervision to patients with proven inborn errors of metabolism. Not intended for children under one year of age. Not suitable as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

Storage:

- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents of can within 1 month. Replace lid firmly after use.

PhenylAde®

Medical foods for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet phenylalanine and general nutrition requirements.

Mixing Instructions:

1. Add prescribed amount of PhenylAde powder to cold water, shake or stir until completely mixed together.
2. Dilution may be adjusted to taste. See recommended dilutions below for a guideline.
3. Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
4. Do not heat, bake or add to food or beverages above 130°F.

Recommended Dilution:

- **PhenylAde Essential Drink Mix**
  Add contents of approx. 1 scoop (40 g) to approx. 7 fl oz (210 mL) of cold water.
- **PhenylAde GMP Drink Mix**
  Add contents of approx. 1 scoop or pouch (33.3 g) to approx. 5-6 fl oz (150-180 mL) of cold water.
- **PhenylAde GMP READY**
  Shake well before use. Best served chilled or at room temperature.
- **PhenylAde GMP Mix-In**
  Add contents of 1 pouch or scoop (12.5 g) to approx. 6-8 fl oz (180-240 mL) of cold water or a flavored (protein-free) beverage.
- **PhenylAde GMP ULTRA**
  Add contents of 1 pouch (33.4 g) to approx. 6 fl oz (180 mL) of cold water.
- **PhenylAde 60 Drink Mix**
  Add contents of 1 scoop (16.7 g) to approx 3 fl oz (90 mL) of cold water.
- **PhenylAde Amino Acid Blends**
  Add one serving to single portion of low protein food, beverage or other PKU formula. The appropriate serving size must be established and consumed to meet prescribed amino acid protein requirements. Not intended to be added to plain water.

Precautions:

- Must only be given under strict medical supervision to individuals with proven phenylketonuria. Not intended for infants. Not intended as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.
- PhenylAde GMP products are not suitable for individuals with a dairy or milk allergy.

Storage:

- Store unopened cans or pouches in a cool, dry place. Do not store at extreme temperatures. Once cans are opened, use within one month. PhenylAde GMP READY must be used immediately or refrigerated promptly once opened and used within 24 hours.

Phlexy-10®

An interchangeable system of phenylalanine-free medical foods for the dietary management of phenylketonuria (PKU) in older children and adults, including pregnant women and women of child-bearing age.

Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet phenylalanine and general nutrition requirements. Fat, carbohydrate and low protein sources may be used to supply needed calories and to fulfill essential fatty acid requirements.
- Intake of Phlexy-10 products will vary depending on the age, body weight and medical condition of the individual. Intake is adjusted to maintain normal growth and development. One packet of the drink mix or 10 tablets provide 10 g of amino acids, equivalent to 8.33 g of protein.
- Phlexy-10 products do not contain vitamins, minerals, or trace elements. It is essential that these nutrients are supplied separately.

Mixing Instructions:

- **Phlexy-10 Drink Mix:** Mix the contents of one packet with a small amount of water, stirring into a thick paste. Continue stirring while adding water to make up a final volume of approximately 100 mL (~3.5 fl oz). Once prepared, store formula in a refrigerator for no longer than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
- **Phlexy-10 Tablets:** Should be taken with water or a phenylalanine-free beverage.

Precautions:

- Must only be given under strict medical supervision to patients with proven phenylketonuria. Not intended for use as the sole source of nutrition. Not intended for infants under 1 year of age. For oral and tube feeding. Not for parenteral use.

Storage:

- Phlexy-10 Drink Mix and Tablets should be stored in a cool, dry place. Once Phlexy-10 Tablets are opened, use contents within 1 month. Replace lid securely after use.

PhenylAde® PheBLOC™ LNAA

Medical food containing essential amino acids (large neutral amino acids and lysine) except phenylalanine.
For the dietary management of phenylketonuria (PKU) in individuals over 12 years of age.

Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet phenylalanine and general nutrition requirements.
- Intake of the product is dependent on the age, bodyweight and medical condition of the individual.

Mixing Instructions:

PhenylAde PheBLOC LNAA powder

- Add contents of 1 pouch (3 g) to ~½ cup of any semi-solid food (i.e., applesauce, mashed potatoes, pudding, sorbet, etc).

Visit **NutriciaLearningCenter.com** for guidelines on the usage of PhenylAde PheBLOC LNAA in the dietary management of PKU

Precautions:

- Must only be given under strict medical supervision to individuals with proven phenylketonuria. Suitable for individuals over 12 years of age. Not suitable as the sole source of nutrition. For oral use. Not for parenteral use.
- **Not for use when planning or during pregnancy.**
- **Seek medical advice before using with serotonergic medications or any kind of psychotropic medications.**

Storage:

- Store unopened pouches or containers in a cool, dry place.
- Once tablets are opened, use within one month. Replace lid securely when not in use.

Lophlex® Powder and Lophlex® LQ

Low volume medical foods for the dietary management of metabolic disorders in children and adults, including pregnant women and women of child-bearing age.

Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet amino acid and general nutrition requirements. Fat, carbohydrate and low protein sources may be used to supply needed calories and to fulfill essential fatty acid requirements.
- Intake of Lophlex and Lophlex LQ will vary depending on the age, body weight and medical condition of the individual. Intake is adjusted to maintain normal growth and development. Lophlex and Lophlex LQ should be divided into equal portions and distributed throughout the day.

Mixing Instructions:

Lophlex LQ

- Shake vigorously before use. Tastes best when served chilled.

PKU Lophlex Powder

- Mix the contents of one pouch with a small amount of water to make a paste. Continue stirring while adding water to a final volume of approximately 70 mL (2.5 fl oz) for a 1 to 5 dilution. Lophlex may be taken in a more concentrated form, either as a drink or paste. If so, water or diluted drinks should be offered at the same time. Lophlex is best prepared with chilled water and consumed immediately after preparation. Larger volumes of prepared formula should be refrigerated and used within 24 hours of preparation. Shake or stir prepared formula immediately before use.

TYR Lophlex GMP MIX-IN

- Add contents of 1 pouch (12.5 g) to approx. 6-8 fl oz (180-240 mL) of a chilled, flavored drink.
- Not suitable for individuals with a dairy or milk allergy.

Precautions:

- Must only be used under strict medical supervision in individuals with proven inborn errors of metabolism. Not intended as a sole source of nutrition. For oral and tube feeding. Not for parenteral use.

Storage:

- Store in a cool, dry place, away from sunlight.

Complex MSD®: Essential and Amino Acid Blend

Medical foods for the dietary management of maple syrup urine disease (MSUD) in children and adults, including pregnant women and women of child-bearing age.

Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet branched-chain amino acid and general nutrition requirements.

Mixing Instructions:

- Add prescribed amount of Complex MSD powder to cold water, shake or stir until completely mixed together.
- Dilution may be adjusted to taste. See guidelines below.
- Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
- Do not heat, bake or add to food or beverages above 130°F.

Recommended Dilution:

Complex MSD Essential

- Add 40 g powder (approx. 1 scoop) to approx. 7 fl oz (210 mL) of cold water. Dilution may be adjusted to taste.

Complex MSD Amino Acid Blend

- Add contents of 1 scoop (12.4 g) to single portion of low protein food, beverage or other MSUD formula. Appropriate serving size must be established by a medical professional and consumed to meet prescribed protein equivalent requirements. Not intended to be added to plain water.

Precautions:

- Must only be given under strict medical supervision to individuals with proven maple syrup urine disease. Not intended for infants. Not intended as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

Storage:

- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 1 month. Replace lid firmly after use.

GlutarAde®: Essential and Amino Acid Blend

Medical foods for the dietary management of glutaric aciduria type 1 (GA-1) in children and adults, including pregnant women and women of child-bearing age.

Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet the lysine and general nutrition requirements.

Mixing Instructions:

- Add prescribed amount of GlutarAde powder to cold water, shake or stir until completely mixed together.
- Dilution may be adjusted to taste. See guidelines below.
- Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
- Do not heat, bake or add to food or beverages above 130°F.

Recommended Dilution

GlutarAde Essential

- Add 40 g powder (approx. 1 scoop) to approx. 7 fl oz (210 mL) of cold water. Dilution may be adjusted to taste.

GlutarAde Amino Acid Blend

- Add contents of 1 scoop (12.3 g) to single portion of low protein food, beverage or other GA-1 formula. Appropriate serving size must be established by a medical professional and consumed to meet prescribed protein equivalent requirements. Not intended to be added to plain water.

Precautions:

- Must only be given under strict medical supervision to individuals with proven glutaric aciduria type 1. Not intended for infants. Not intended as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

Storage:

- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 1 month. Replace lid firmly after use.

UCD Anamix® Infant

A powdered infant formula for the dietary management of urea cycle disorders in infants.

UCD Anamix Infant is available under FDA enforcement discretion and is imported with a European label in English and Spanish.

Administration:

- Must be consumed in conjunction with a whole protein source (e.g. breast milk or standard infant formula) in quantities prescribed by a dietitian or physician to meet protein and general nutrition requirements to ensure normal growth and development.
- Intake to be determined by a qualified healthcare professional and is dependent on the age, body weight, and medical condition of the infant.

Mixing Instructions:

- To make the recommended dilution of 22 kcal/oz, add 1 unpacked, level scoop (5 g) of powder to each fluid ounce of water (30 mL). Only use the scoop provided. For greater accuracy, weigh formula on a gram scale.
- UCD Anamix Infant may be mixed with warm or cool water that has been boiled. Do not boil formula or use a microwave to prepare or warm formula.

To make formula:

1. Wash hands thoroughly and clean the preparation area.
2. Pour the required amount of cooled, boiled water into a sterilized* feeding bottle.
3. Fill the scoop provided with powder and level off with a clean, dry knife. Do not press the powder into the scoop. Only use the scoop provided. Alternatively, measure the powder with a gram scale.
4. Add the prescribed number of scoops of powder (or weighed grams of powder) to the water. Replace the cap on the bottle and shake until the powder dissolves. Before feeding, ensure that the formula is at the correct temperature by placing a few drops on the wrist. Shake immediately before use.

*Ask your baby's healthcare team if you need to use cooled, boiled water for mixing and if you need to boil (sterilize) bottles, nipples, and rings before use.

Dilution Guidelines for UCD Anamix Junior

Amount of Water	Amount of UCD Anamix Infant Powder to Add	Approximate Protein Equivalent	Approximate Final Volume
3 fl oz (90 mL)	15 g (approx. 3 scoops)	1.1 g	3.4 fl oz (100 mL)
Osmolality at this concentration is 310 mOsmol/kg/kg H2O			

Important Preparation Information: Freshly-prepared formula is best. Formula prepared in advance must be cooled rapidly, stored in the refrigerator and used within 24 hours of preparation. Formula remaining in the bottle after one hour of feeding should be discarded. Powdered infant formula is not sterile.

Precautions:

- Must only be given under strict medical supervision to infants and young children with urea cycle disorders, HHH syndrome, or gyrate atrophy. Not intended as a sole source of nutrition. For oral and tube feeding. Not for parenteral use.

Storage:

- Store unopened cans in a cool, dry place. Avoid extreme temperatures. Once opened, use contents within 2 weeks. Replace lid firmly after use.

UCD Anamix® Junior

Medical food for the dietary management of urea cycle disorders in individuals over 1 year of age.

Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet protein and general nutrition requirements.
- Intake to be determined by a medical professional and is dependent on age, body weight and medical condition of the individual. For accuracy, weigh on a gram scale. Daily intake should be divided into equal portions and distributed throughout the day.
- Suitable for patients over 1 year of age, including pregnant women and women of child-bearing age.

Mixing Instructions:

- Best served chilled with meals.
- Pour the required volume of cold water into a glass or cup.
- Add the prescribed amount of UCD Anamix Junior powder to the water and stir. For greater accuracy use a gram scale.
- It is recommended that UCD Anamix Junior be prepared at a 1 to 3.5 dilution. This is a guideline only. An alternative dilution may be recommended by a clinician or dietitian (e.g. drink or paste). If given in a more concentrated form, water or diluted drinks should be offered at the same time.
- Once prepared, store formula in a refrigerator for no longer than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.

Dilution Guidelines for UCD Anamix Junior

Dilution of approx. 27 kcal/fl oz (0.9 kcal/mL)

Amount of Powder	Water Added	Final Volume	Approx. PE
30 g (approx. 6 scoops)	3.5 fl oz (105 mL)	4.2 fl oz (126 mL)	3.6 g
50 g (approx. 10 scoops)	5.8 fl oz (175 mL)	7 fl oz (210 mL)	6 g

Precautions:

- Must only be given under strict medical supervision to patients with proven urea cycle disorders. Not intended for children under one year of age. Not suitable as a sole source of nutrition. For oral and tube feeding. Not for parenteral use.

Storage:

- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 1 month. Replace lid firmly after use.

Coco, Age 8
Diagnosed with intractable epilepsy

MEDICAL KETOGENIC DIET

NLC™
NUTRICIA LEARNING CENTER

Find more information and resources on these and all of our products at **www.NutriciaLearningCenter.com**

KetoCal® 3:1 Powder

A nutritionally complete, ketogenic formula in a 3:1 ratio (fat:carbohydrate + protein) for the dietary management of refractory epilepsy and other epilepsy-related conditions where the medical ketogenic diet is indicated; designed for individuals over 1 year of age. A medical food.

Main Features:

- Nutritionally complete
- 3:1 ratio
- DHA and ARA
- Unflavored
- Appropriate for enteral or oral feedings
- No artificial sweeteners
- 0 g of *trans* fat
- Nutrient dense for children with low energy requirements
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL): 160 mOsm/kg H_2O
- Energy distribution:

Protein	8.7%
Carbohydrate	4.1%
Fat (LCT 100%)	87.2%

- Displacement 1 mL/g

Indications:

- Refractory/intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (Glut1DS)
  - Pyruvate dehydrogenase deficiency (PDH)
  - Dravet syndrome
  - Super Refractory Status Epilepticus (SRSE)

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
77155	49735-0717-55	B4154, B4157, B4162	6 x 300 g (11 oz)	2133

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal*
Calories	711	100
Protein, g	15.4	2.2
Carbohydrate, g	7.2	1.0
Fat, g	68.6	9.7
Saturated, g	26.6	3.7
Monounsaturated, g	24.0	3.4
Polyunsaturated, g	18.0	2.5
Linoleic Acid, mg	15515	2183
α-Linolenic Acid, mg	1284	181
DHA, mg	180	25.0
ARA, mg	180	25.0
Vitamins		
Vitamin A, IU (mcg RE)	1166 (350)	164 (49.3)
Vitamin D_3, IU (mcg)	613 (15.3)	86.3 (2.2)
Vitamin E, IU (mg α-TE)	12.1 (8.1)	1.7 (1.1)
Vitamin K, mcg	49.8	7.0
Thiamine, mg	0.64	0.09
Riboflavin, mg	0.64	0.09
Vitamin B_6, mg	0.64	0.09
Vitamin B_{12}, mcg	1.3	0.18
Niacin, mg	4.5	0.63
Folic Acid, mcg	95.8	13.5
Pantothenic Acid, mg	5.4	0.76
Biotin, mcg	12.8	1.8
Vitamin C, mg	59.0	8.3
Choline, mg	202	28.5
Inositol, mg	140	19.7

Minerals	Per 100 g	Per 100 kcal*
Calcium, mg	729	103
Phosphorus, mg	492	69.2
Magnesium, mg	70.3	9.9
Iron, mg	10.9	1.5
Zinc, mg	7.7	1.1
Manganese, mg	0.13	0.02
Copper, mcg	460	64.7
Iodine, mcg	93.5	13.2
Molybdenum, mcg	31.4	4.4
Chromium, mcg	26.1	3.7
Selenium, mcg	24.3	3.4
Sodium, mg	320	45.0
Potassium, mg	828	117
Chloride, mg	491	69.1
L-Carnitine, mg	43.9	6.2
Taurine, mg	43.8	6.2

*Standard Dilution = 1 kcal/mL

Ingredients:

Refined Vegetable Oils (Palm, Soy, High Oleic Sunflower), Casein (Milk), Lactose (Milk), Whey (Milk), Corn Syrup Solids, Tricalcium Phosphate, Potassium Citrate, Potassium Chloride, Choline Bitartrate, Calcium Phosphate Dibasic, Glycine, *M. alpina* Oil*, *C. cohnii* Oil**, Magnesium Chloride, L-Cystine, L-Leucine, Sodium Caseinate (Milk), L-Tryptophan, M-Inositol, Magnesium Acetate, L-Valine, Sodium Ascorbate, L-Carnitine, Taurine, Ferrous Sulfate, Zinc Sulfate, Mono- and Diglycerides, Calcium D-Pantothenate, Niacinamide, DL-Alpha Tocopheryl Acetate, Copper Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Manganese Sulfate, Mixed Tocopherols, Ascorbyl Palmitate, Chromium Chloride, Folic Acid, Potassium Iodide, Sodium Molybdate, Sodium Selenite, Cholecalciferol, D-Biotin, Cyanocobalamin

Contains: Milk, Soy Oil

*Source of Arachidonic Acid (ARA)

** Source of Docosahexaenoic Acid (DHA)

Access our Clinician Resources, including DRI Calculator here:
http://bit.ly/NutriciaHCPTools

KetoCal® 4:1 Powder

A nutritionally complete, ketogenic formula in a 4:1 ratio (fat:carbohydrate + protein) for the dietary management of refractory epilepsy and other epilepsy-related conditions where the medical ketogenic diet is indicated; designed for individuals over 1 year of age. A medical food.

Main Features:

- Nutritionally complete
- 4:1 ratio
- DHA and ARA
- Vanilla flavor
- Appropriate for enteral or oral feedings
- Contains a multi-fiber blend
- Contains sucralose
- 0 g of *trans* fat
- Nutrient dense for children with low energy requirements
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL): 170 mOsm/kg H_2O
- Energy distribution:

Protein	8.2%
Carbohydrate	3.5%
Fiber	1.5%
Fat (LCT 100%)	88.3%

- Displacement 1 mL/g

Indications:

- Refractory/intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (Glut1DS)
  - Pyruvate dehydrogenase deficiency (PDH)
  - Dravet syndrome
  - Super Refractory Status Epilepticus (SRSE)

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
101777	49735-0166-70	B4154, B4157, B4162	6 x 300 g (11 oz)	2115

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal*
Calories	705	100
Protein, g	14.4	2.0
Carbohydrate, g	8.2	1.2
Fiber, g	5.3	0.75
Soluble, g	3.2	0.45
Insoluble, g	2.1	0.30
Fat, g	69.2	9.8
Saturated, g	26.7	3.8
Monounsaturated, g	22.8	3.2
Polyunsaturated, g	19.7	2.8
Linoleic Acid, mg	16200	2300
α-Linolenic Acid, mg	1700	241
DHA, mg	110	15.6
ARA, mg	120	17.0
Vitamins		
Vitamin A, IU (mcg RE)	1232 (370)	175 (52.5)
Vitamin D‡, IU (mcg)	420 (10.5)	59.6 (1.5)
Vitamin E, IU (mg α-TE)	15.9 (10.7)	2.3 (1.5)
Vitamin K, mcg	31.0	4.4
Thiamin, mg	0.89	0.13
Riboflavine, mg	0.70	0.10
Vitamin B_6, mg	0.70	0.10
Vitamin B_{12}, mcg	1.3	0.18
Niacin, mg	4.9	0.70
Folic Acid, mcg	116	16.5
Pantothenic Acid, mg	2.9	0.41
Biotin, mcg	19.1	2.7
Vitamin C, mg	40.0	5.7
Choline, mg	320	45.5
Inositol, mg	19.1	2.7

Minerals	Per 100 g	Per 100 kcal*
Calcium, mg	700	99.3
Phosphorus, mg	420	59.6
Magnesium, mg	96.3	13.7
Iron, mg	7.0	0.99
Zinc, mg	3.6	0.51
Manganese, mg	0.83	0.12
Copper, mcg	500	71.0
Iodine, mcg	86.2	12.2
Molybdenum, mcg	28.7	4.1
Chromium, mcg	14.8	2.1
Selenium, mcg	27.0	3.8
Sodium, mg	481	68.2
Potassium, mg	771	109
Chloride, mg	726	103
L-Carnitine, mg	45.0	6.4
Taurine, mg	33.0	4.7

* Standard Dilution = 1 kcal/mL

Fiber is subtracted from total carbohydrate when calculating the ketogenic ratio

Ingredients:

Refined Vegetable Oils (Palm, Soy, High Oleic Sunflower), Casein (Milk), Soy Lecithin, Whey (Milk), Microcrystalline Cellulose, Chicory Root Inulin, Calcium Carbonate, Corn Syrup Solids, Fructooligosaccharide (FOS), Silicon Dioxide, Gum Arabic, Tripotassium Citrate, Potassium Chloride, Sodium Chloride, Calcium Phosphate Tribasic, High Amylose Corn Starch, Artificial Flavor (Vanilla), L-Arginine, L-Cystine, Choline Bitartrate, *M. alpina* Oil*, *C. cohnii* Oil**, Soy Fiber, L-Tryptophan, Magnesium Oxide, Sodium Caseinate (Milk), Sodium Ascorbate, L-Phenylalanine, Maltodextrin, L-Ascorbic Acid, L-Valine, L-Tyrosine, L-Carnitine, Taurine, Ferrous Sulfate, Mono- and Diglycerides, DL-alpha Tocopheryl Acetate, Sucralose§, M-Inositol, L-Histidine, Zinc Sulfate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Mixed Tocopherols, Folic Acid, Potassium Iodide, Sodium Molybdate, Chromium Chloride, Sodium Selenite, Phylloquinone, D-Biotin, Cholecalciferol, Cyanocobalamin.

Contains: Milk, Soy

* A source of Arachidonic Acid (ARA)

** A source of Docosahexaenoic Acid (DHA)

§ Contains sucralose 14.2 mg/100 mL

Access our Clinician Resources, including DRI Calculator here:
http://bit.ly/NutriciaHCPTools

KetoCal® 4:1 LQ (Unflavored and Vanilla)

A nutritionally complete, ready-to-feed ketogenic formula in a 4:1 ratio (fat:carbohydrate + protein) for the dietary management of refractory epilepsy and other epilepsy-related conditions where the medical ketogenic diet is indicated; designed for individuals over 1 year of age. A medical food.

Main Features:

- Nutritionally complete
- 4:1 ratio
- DHA and ARA
- Great vanilla flavor or unflavored
- Convenient ready-to-feed liquid
- Appropriate for enteral or oral feedings
- Contains a multi-fiber blend
- Contains sucralose
- 0 g of *trans* fat
- Nutrient dense for children with low energy requirements
- Osmolality (at 1.5 kcal/mL):
  Vanilla 260 mOsm/kg H_2O
  Unflavored 280 mOsm/kg H_2O
- Energy distribution:
  Protein 8.2%
  Carbohydrate 3.1%
  Fiber 1.5%
  Fat (LCT 100%) 88.7%
- Free water 77.8%
- Density 1.01g/mL

Indications:

- Refractory/intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (Glut1DS)
  - Pyruvate dehydrogenase deficiency (PDH)
  - Dravet syndrome
  - Super Refractory Status Epilepticus (SRSE)

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Carton
113354 – Vanilla	49735-0187-96	B4154, B4157 B4162	27 x 237 mL (8 fl oz)	356
113357 – Unflavored	49735-0130-54	B4154, B4157 B4162	27 x 237 mL (8 fl oz)	356

WIC[1]: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 mL	Per Carton (237 mL)
Calories	150	356
Protein, g	3.09	7.32
Carbohydrate, g	1.73	4.10
Fiber, g	1.12	2.65
Soluble, g	0.56	1.33
Insoluble, g	0.56	1.33
Fat, g	14.8	35.1
Saturates, g	2.2	5.2
Monounsaturates, g	8.3	19.7
Polyunsaturates, g	3.7	8.8
Linoleic Acid, mg	3228	7650
α-Linolenic Acid, mg	313	741
DHA, mg	55.0	131
ARA, mg	55.0	131
Vitamins		
Vitamin A, IU (mcg RE)	264 (79.2)	626 (188)
Vitamin D, IU (mcg)	92.0 (2.3)	220 (5.5)
Vitamin E, IU (mg α–TE)	2.3 (1.5)	5.5 (3.6)
Vitamin K, mcg	5.6	13.3
Thiamine, mg	0.19	0.45
Riboflavin, mg	0.15	0.36
Vitamin B_6, mg	0.15	0.36
Vitamin B_{12}, mcg	0.17	0.40
Niacin, mg	1.5	3.6
Folic Acid, mcg	28.7	68.0
Pantothenic Acid, mg	0.62	1.5
Biotin, mcg	4.1	9.7
Vitamin C, mg	9.3	22.0
Choline, mg	51.5	122
Inositol, mg	4.1	9.7

Minerals	Per 100 mL	Per Carton (237 mL)
Calcium, mg	88.4	210
Phosphorus, mg	88.4	210
Magnesium, mg	22.7	53.8
Iron, mg	1.5	3.6
Zinc, mg	1.2	2.8
Manganese, mg	0.18	0.43
Copper, mcg	120	284
Iodine, mcg	18.5	43.8
Molybdenum, mcg	6.2	14.7
Chromium, mcg	3.2	7.6
Selenium, mcg	7.1	16.8
Sodium, mg	103	244
Potassium, mg	165	391
Chloride, mg	155	367
L-Carnitine, mg	8.3	19.7
Taurine, mg	6.3	14.9

Fiber is subtracted from total carbohydrate when calculating the ketogenic ratio

Ingredients:

Water, Refined Vegetable Oil (High Oleic Sunflower, Soy, Palm), Sodium Caseinate (Milk), Whey Protein Concentrate (Milk), Soy Fiber, Corn Starch, Inulin, CITREM, Dipotassium Phosphate, Gum Arabic, Calcium Chloride, *M. alpina* Oil*, Magnesium Acetate, Potassium Chloride, *C. cohnii* Oil**, Microcrystalline Cellulose, Fructooligosaccharide , L-Ascorbic Acid, Calcium Phosphate Monobasic, Mono and Diglycerides, Trisodium Citrate, Sodium Hydroxide, Choline Chloride, L-Cystine, Calcium Phosphate Dibasic, Propylene Glycol Alginate, Ferrous Lactate, L-Carnitine, Taurine, M-Inositol, L-Tryptophan, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Soy Lecithin, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Ascorbyl Palmitate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Mixed Tocopherols, DL-Alpha Tocopherol, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Contains: Milk, Soy

Unflavored version also contains: Sugar.

Vanilla flavored version also contains: Artificial Flavor, Sugar, Artificial Sweetener: Sucralose.

* A Source of Arachidonic Acid (ARA)

** A Source of Docosahexaenoic Acid (DHA)

Access our Clinician Resources, including DRI Calculator here:
http://bit.ly/NutriciaHCPTools

KetoCal® 4:1 LQ (Chocolate)

A nutritionally complete, ready-to-feed ketogenic formula in a 4:1 ratio (fat:carbohydrate + protein) for the dietary management of refractory epilepsy and other epilepsy-related conditions where the medical ketogenic diet is indicated; designed for individuals 3 years of age and older. A medical food.

Main Features:

- Nutritionally complete
- 4:1 ratio
- DHA and ARA
- Tasty chocolate formula
- Convenient ready-to-feed liquid
- Appropriate for enteral or oral feedings
- Contains a multi-fiber blend
- Osmolality (at 1.5 kcal/mL): 260 mOsm/kg H20
- Energy distribution:
  Protein 8.1%
  Carbohydrate 3.2%
  Fiber 1.5%
  Fat 88.7%
- Free water: 79%
- Density: 1.01 g/mL

Indications:

- Refractory/intractable epilepsy
- Other epilepsy-related conditions where the medical ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (Glut1DS)
  - Pyruvate dehydrogenase deficiency (PDHD)
  - Dravet syndrome
  - Super Refractory Status Epilepticus (SRSE)

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Carton
175809	49735-0100-60	B4154, B4157 B4162	27 x 237 mL (8 fl oz)	363

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 mL	Per Carton (237 mL)
Calories	153	363
Protein, g	3.09	7.32
Carbohydrate, g	1.8	4.2
Fiber, g	1.12	2.65
Soluble, g	0.56	1.33
Insoluble, g	0.56	1.33
Fat, g	15.0	35.6
Saturates, g	2.3	5.5
Monounsaturates, g	8.7	20.6
Polyunsaturates, g	4.0	9.5
Linoleic Acid, mg	3400	7900
α-Linolenic Acid, mg	310	730
DHA, mg	55.3	131
ARA, mg	55.3	131
Vitamins		
Vitamin A, IU (mcg RE)	264 (79.2)	625 (188)
Vitamin D, IU (mcg)	92.0 (2.3)	218 (5.5)
Vitamin E, IU (mg α-TE)	5.8 (3.9)	13.7 (9.2)
Vitamin K, mcg	10.2	24.2
Thiamine, mg	0.13	0.30
Riboflavin, mg	0.15	0.36
Vitamin B_6, mg	0.15	0.36
Vitamin B_{12}, mcg	0.17	0.40
Niacin, mg	1.5	3.6
Folic Acid, mcg	37.8	89.6
Pantothenic Acid, mg	0.62	1.5
Biotin, mcg	4.1	9.7
Vitamin C, mg	9.3	22.0
Choline, mg	51.5	122
Inositol, mg	4.1	9.7

Minerals	Per 100 mL	Per Carton (237 mL)
Calcium, mg	88.4	210
Phosphorus, mg	88.4	210
Magnesium, mg	22.7	53.8
Iron, mg	1.5	3.6
Zinc, mg	1.2	2.8
Manganese, mg	0.18	0.43
Copper, mcg	120	284
Iodine, mcg	18.5	43.8
Molybdenum, mcg	6.2	14.7
Chromium, mcg	4.2	10.0
Selenium, mcg	7.1	16.8
Sodium, mg	103	244
Potassium, mg	165	391
Chloride, mg	155	367
L-Carnitine, mg	8.3	19.7
Taurine, mg	6.3	14.9

Fiber is subtracted from total carbohydrate when calculating the ketogenic ratio

Ingredients:

Water, Refined Vegetable Oil (High Oleic Sunflower, Soybean, Palm,), Sodium Caseinate (Milk), and less than 2% of each of the following: Whey Protein Concentrate (Milk), Apple Juice Concentrate (For Color), Soy Fiber, Corn Starch, Inulin, CITREM, Dipotassium Phosphate, Gum Arabic, Calcium Chloride, Magnesium Acetate, Microcrystalline Cellulose, Potassium Chloride, Fructooligosaccharides (FOS), *C. cohnii* Oil*, *M. alpina* Oil**, Trisodium Citrate, Sugar, Calcium Phosphate Monobasic, Mono and Diglycerides, Calcium Phosphate Dibasic, Choline Chloride, L-Cystine, Sodium Hydroxide, Maltodextrin, L-Ascorbic Acid, Sucralose, Propylene Glycol Alginate, L-Carnitine, Ferrous Lactate, Taurine, M-Inositol, L-Tryptophan, Zinc Sulfate, Natural & Artificial Flavors, Soy Lecithin, Niacinamide, DL-Alpha Tocopheryl Acetate, Vitamin A Acetate, Calcium D-Pantothenate, Vitamin D_3, Manganese Sulfate, Ascorbyl Palmitate, Cupric Sulfate, Thiamin Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Mixed Tocopherols, DL-Alpha Tocopherol, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, D-Biotin, Phylloquinone, Cynocobalomin.

Contains: Milk, Soy

* A Source of Docosahexaenoic Acid (DHA)
** A Source of Arachidonic Acid (ARA)

Access our Clinician Resources, including DRI Calculator here:
http://bit.ly/NutriciaHCPTools

KetoCal® 2.5:1 LQ (Vanilla)

A nutritionally complete, ready-to-feed ketogenic formula in a 2.5:1 ratio (fat:carbohydrate + protein) for the dietary management of refractory epilepsy and other epilepsy-related conditions where the medical ketogenic diet is indicated. Designed for individuals over 8 years of age and older. A medical food.

Main Features:

- Nutritionally complete
- 2.5:1 ratio
- DHA
- MCT
- Great vanilla flavor
- Convenient ready-to-feed liquid
- Appropriate for enteral or oral feedings
- Contains a multi-fiber blend
- Contains sucralose
- 0 g of *trans* fat
- Nutrient dense for children with low energy requirements
- Osmolality (at 1.5 kcal/mL): 347 mOsm/kg H_2O
- Energy distribution:

Protein	12%
Carbohydrate	2.9%
Fiber	1.5%
Fat (MCT 25% LCT 75%)	84%
Free water	76.7%
Density	1.02 g/mL

Indications:

- Refractory/intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (Glut1DS)
  - Pyruvate dehydrogenase deficiency (PDH)
  - Dravet syndrome
  - Super Refractory Status Epilepticus (SRSE)

For details on administration, please see the end of this section.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Carton
137246	49735-01-7246	B4154, B4157, B4162	27 x 237 mL (8fl oz)	363

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 mL	Per Carton (237 mL)
Calories	153	363
Protein, g	4.5	10.7
Carbohydrate, g	2.2	5.2
Fiber, g	1.1	2.6
Soluble, g	0.56	1.3
Insoluble, g	0.56	1.3
Fat, g	14.3	33.9
Saturated, g	4.8	11.4
Trans, g	0.0	0.0
Medium Chain Triglycerides, g	3.6	8.5
Monounsaturated, g	8.0	19.0
Polyunsaturated, g	1.5	3.6
DHA, mg	58.2	138
Vitamins		
Vitamin A, IU (mcg RE)	300 (90.0)	710 (213)
Vitamin D3, IU (mcg)	92.0 (2.3)	218 (5.5)
Vitamin E, IU (mg α-TE)	5.9 (4.0)	14.0 (9.5)
Vitamin K1, mcg	7.8	18.5
Thiamine, mg	0.15	0.36
Riboflavin, mg	0.15	0.36
Vitamin B_6, mg	0.15	0.36
Vitamin B_{12}, mcg	0.30	0.71
Niacin, mg	1.8	4.3
Folic Acid, mcg	29.0	68.7
Pantothenic Acid, mg	0.62	1.5
Biotin, mcg	4.1	9.7
Vitamin C, mg	9.4	22.3
Choline, mg	52.0	123
Inositol, mg	4.1	9.7

Minerals	Per 100 mL	Per Carton (237 mL)
Calcium, mg	115	273
Phosphorus, mg	90.0	213
Magnesium, mg	26.0	61.6
Iron, mg	1.4	3.3
Zinc, mg	0.91	2.2
Manganese, mcg	180	427
Copper, mcg	120	284
Iodine, mcg	19.0	45.0
Molybdenum, mcg	5.5	13.0
Chromium, mcg	2.5	5.9
Selenium, mcg	5.4	12.8
Sodium, mg	117	277
Potassium, mg	250	593
Chloride, mg	207	491
L-Carnitine, mg	8.3	20.0
Taurine, mg	6.3	14.9

Fiber is subtracted from total carbohydrate when calculating the ketogenic ratio

Ingredients:

Water, Refined Vegetable Oil (High Oleic Sunflower Oil, Medium Chain Triglycerides (Palm Kernel And/Or Coconut Oil), Soy Oil), Sodium Caseinate (Milk), Whey Protein Concentrate (Milk), Sugar, Soy Fiber, Tripotassium Citrate, Corn Starch, Calcium Chloride, Inulin, CITREM, Artificial Flavors, Gum Arabic, Magnesium Acetate, Dipotassium Phosphate, *C. cohnii* Oil*, Microcrystalline Cellulose, Fructo-Oligosaccharides (FOS), Calcium Phosphate Monobasic, Potassium Chloride, Mono- And Diglycerides, Maltodextrin, Trisodium Citrate, Choline Chloride, Sodium Hydroxide, L-Cystine, L-Ascorbic Acid, Calcium Phosphate Tribasic, Sucralose**, Propylene Glycol Alginate, L-Carnitine, Ferrous Lactate, Taurine, M-Inositol, L-Tryptophan, DL-Alpha Tocopheryl Acetate, Zinc Sulfate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Copper Sulfate, Thiamin Mononitrate, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Ascorbyl Palmitate, Mixed Tocopherols, Folic Acid, Potassium Iodide, Sodium Molybdate, Chromium Chloride, Phylloquinone, Sodium Selenite, D-Biotin, Cholecalciferol, Cyanocobalamin.

Contains: Milk, Soy

* A Source of Docosahexaenoic Acid (DHA)

**Contains Sucralose 43 mg/237 mL

KetoCal® Family

Directions for Preparation:

For oral and tube feeding:

KetoCal 3:1 and 4:1 Powders

1. Measure the required amount of warm water into a container that seals with a screw top lid. To completely dissolve the powder, the water must be at a temperature of 113-122°F (45-50°C).
2. Add the prescribed amount of KetoCal to the water.
3. Cover and shake until the powder has dissolved.
4. Once prepared, the formula should be stored in a refrigerator and kept no longer than 24 hours.

Directions for Use:

- For oral feeding, best served chilled and consumed immediately.
- **Tube feeding hang time**: Nutricia recommends formula can be safely kept at room temperature for up to 4 hours, at which time unused formula should be discarded.
- It is recommended that the tube is flushed with lukewarm water (approximately 98°F or 37°C) between each feed.
- Do not boil or microwave formula.
- Do not freeze. Recommended storage between 39°F-77°F (4°C-25°C).
- Once powdered formula is prepared or liquid formula is open, use immediately or refrigerate promptly at 39°F/4°C or less and use within 24 hours.

Mixing Guide:

KetoCal 4:1 Powder

Dilution to be determined by medical prescription:

Dilution	Powder	Water	Final Volume	Osmolality
20 kcal/fl oz	9.5 g	91 mL	100 mL	110 mOsm/kg
24 kcal/fl oz	11.4 g	88 mL	100 mL	130 mOsm/kg
30 kcal/fl oz	14.2 g	86 mL	100 mL	170 mOsm/kg
45 kcal/fl oz	21.3 g	79 mL	100 mL	260 mOsm/kg

A gram scale is necessary for proper preparation of formula.

KetoCal 3:1 Powder

Dilution to be determined by medical prescription:

Dilution	Powder	Water	Final Volume	Osmolality
20 kcal/fl oz	9.3 g	90 mL	100 mL	100 mOsm/kg
24 kcal/fl oz	11.3 g	89 mL	100 mL	120 mOsm/kg
30 kcal/fl oz	14.1 g	86 mL	100 mL	150 mOsm/kg
45 kcal/fl oz	21.1 g	79 mL	100 mL	160 mOsm/kg

A gram scale is necessary for proper preparation of formula.

Storage:

Store unopened product in a cool, dry place and away from sunlight.

KetoCal 3:1 and 4:1 Powders: Once can has been opened, replace container lid and store in a cool, dry place (not in a refrigerator). Use within one month.

Volume and Ordering Guide

		KetoCal 4:1 Powder		KetoCal 3:1 Powder		KetoCal 4:1 LQ (Vanilla or Unflavored)		KetoCal 4:1 LQ Chocolate and KetoCal 2.5:1	
Calories/day	Calories/mo	Cans/mo	Cases/mo	Cans/mo	Cases/mo	Cartons/mo	Cases/mo	Cartons/mo	Cases/mo
600	18000	9	2	9	2	51	2	50	2
700	21000	10	2	10	2	59	3	58	3
800	24000	12	2	12	2	68	3	66	3
900	27000	13	3	13	3	76	3	74	3
1000	30000	15	3	15	3	85	4	83	4
1100	33000	16	3	16	3	93	4	91	4
1200	36000	18	3	17	3	102	4	99	4
1300	39000	19	4	19	4	110	5	107	4
1400	42000	20	4	20	4	118	5	116	5
1500	45000	22	4	21	4	127	5	124	5
1600	48000	23	4	23	4	135	5	132	5
1700	51000	25	5	24	5	144	6	140	6
1800	54000	26	5	26	5	152	6	149	6
1900	57000	27	5	27	5	161	6	157	6
2000	60000	29	5	29	5	169	7	165	7

*Number of cans and cases per month are rounded up to the nearest whole number.

Caution:

- **USE ONLY UNDER STRICT MEDICAL SUPERVISION. NOT FOR PARENTERAL USE.**
- Intake to be determined by a medical professional and is dependent on the age, body weight, and medical condition of the patient.

PRO-STAT®

NLC™
NUTRICIA LEARNING CENTER

Find more information and resources on these and all of our products at **www.NutriciaLearningCenter.com**

Pro-Stat®

A ready-to-drink concentrated liquid protein medical food providing 15 g of enzyme-hydrolyzed collagen protein and 100 calories per 1 fl oz.

Main Features:

- Clinically supported in 3 published trials to: manage wounds (1 study)[1], improve anabolism (1 study)[2], preserve lean body mass (1 study)[3]
- Nutrient dense, providing 15 g of protein and 100 calories per 1 fl oz
- 0 grams of total sugar and 0 mg of phosphorus per serving
- Pro-Stat Peach (with fiber) also provides 3 g prebiotic fiber
- Available in 5 great-tasting flavors
- Lactose-, gluten-, and soy-free
- Kosher
- Available in bottles (6/case) or unit doses (96/case)
- For oral and enteral use

1. Lee SK, et al. Adv Skin Wound Care. 2006;19:92-6.
2. Sundell MB, et al. J Ren Nutr. 2009;19:412-21.
3. Hays NP, et al. J Am Diet Assoc. 2009;109:1082-7.

Indications:

- Increased protein needs in low volume related to:
  - Pressure injuries
  - Wounds (diabetic, venous, surgical, burns)
  - Unintentional muscle loss
  - Protein-energy malnutrition
  - Low serum proteins
  - Sarcopenia
  - Dialysis
  - Fluid restriction

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
78344 – Wild Cherry Punch (bottle)	26974-0410-07	B4155	6 x 30 fl oz	3000
78349 - Citrus Splash (bottle)	26974-0300-64	B4155	6 x 30 fl oz	3000
78350 - Vanilla (bottle)	26974-0410-40	B4155	6 x 30 fl oz	3000
78385 - Grape (bottle)	26974-0410-50	B4155	6 x 30 fl oz	3000
Coming Summer 2022 188276 - Peach (with fiber) (bottle)	49735-0100-85	B4155	6 x 30 fl oz	3000
78395 - Wild Cherry Punch (unit)	26974-0410-17	B4155	96 x 1 fl oz	100
78397 - Citrus Splash (unit)	26974-0304-64	B4155	96 x 1 fl oz	100
78400 - Vanilla (unit)	26974-0410-42	B4155	96 x 1 fl oz	100
78403 - Grape (unit)	26974-0410-52	B4155	96 x 1 fl oz	100
Coming Summer 2022 188275 - Peach (with fiber) (unit) 4	9735-0100-86	B4155	96 x 1 fl oz	100

Nutrition Information:

WILD CHERRY PUNCH, CITRUS SPLASH, GRAPE AND VANILLA NUTRIENTS		PEACH (with fiber)	
Nutrients	**Per 30 mL (2 Tbsp)**	**Nutrients**	**Per 30 mL (2 Tbsp)**
Serving Size: 1 fl oz		Serving Size: 1 fl oz	
Calories	100	Calories	100
Protein, g	15	Protein, g	15
Fat, g	0	Fat, g	0
Carbohydrate, g	8	Carbohydrate, g	8
Total Sugars, g	0	Total Sugars, g	0
Fiber, g	0	Fiber, g	3
Minerals		**Minerals**	
Sodium, mg	55	Sodium, mg	50
Potassium, mg	20	Potassium, mg	20
Phosphorus, mg	0	Phosphorus, mg	0

Ingredients:

Pro-Stat Wild Cherry Punch, Citrus Splash, Grape and Vanilla: Hydrolyzed Collagen Protein, Water, Glycerin, Malic Acid. Contains 2% or less: Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor), Sucralose, L-Tryptophan.

Wild Cherry Punch flavored version of this product contains 2% or less of each of the following: Natural flavors.

Citrus Splash, Grape and Vanilla flavored versions of this product contains 2% or less of each of the following: Natural and Artificial flavors.

Pro-Stat Peach (with fiber): Hydrolyzed Collagen Protein, Water, Glycerin, Polydextrose, Fructo-oligosaccharides (FOS), Malic Acid. Contains 2 % or less: Natural Flavor, L-Tryptophan, Sucralose, Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor).

Administration:

- Use under medical supervision
- Healthcare professionals should determine intake based on condition, estimated need, and dietary intake.
- Administer orally or through feeding tube.

Suggested Intake:

- 1-3 servings per day. One serving = 1 fl oz.

Oral Feeding:

- Shake well before opening.
- Can be taken straight or mixed with any hot or cold food or beverage.

Tube Feeding:

1. Flush feeding tube with 30-60 mL of water.
2. Pour 30 mL of Pro-Stat in a 4-6 fl oz container.
3. Add 30-60 mL water and mix well.
4. Administer Pro-Stat via syringe.
5. Flush with 30-60 mL of water.

Precautions:

- Do not add Pro-Stat to an open or closed system of the tube feeding formula or into a container of enteral feeding.
- Do not add medications to Pro-Stat, even after dilution.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

Storage:

- Store at room temperature.
- Refrigeration causes gelling.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- Do not use if seal is broken.

Pro-Stat® AWC (Advanced Wound Care)

A ready-to-drink concentrated liquid protein medical food providing 17 g of enzyme-hydrolyzed collagen protein and 100 calories per 1 fl oz, with added arginine, citrulline, cystine, vitamin C and zinc.

Main Features:

- Clinically supported in 1 published trial to promote wound healing in stages 2 to 4 pressure injuries[1]
- Nutrient dense, providing 17 g of protein and 100 calories per 1 fl oz
- Contains added arginine, citrulline, cystine, vitamin C and zinc
- Hydrolyzed for rapid absorption & efficient utilization[2]
- Provides conditionally-indispensable amino acids needed for recovery[3-8]
- Lactose-, gluten-, and soy-free
- Kosher
- Available in 3 great-tasting flavors
- Available in bottles (4/case) or unit doses (96/case)
- For oral and enteral use

Indications:

- Increased protein needs in low volume related to:
  - Stages 2 to 4 pressure injuries
  - Multiple pressure injuries
  - Hard-to-heal wounds (diabetic, venous, surgical, burns)
  - Unintentional muscle loss
  - Protein-energy malnutrition
  - Low serum proteins
  - Sarcopenia

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
78382 - Wild Cherry Punch (bottle)	26974-0410-30	B4155	4 x 30 fl oz	3000
78383 - Citrus Splash (bottle)	26974-0410-23	B4155	4 x 30 fl oz	3000
152183 - Berry Fusion (bottle)	26974-0521-83	B4155	4 x 30 fl oz	3000
78398 - Wild Cherry Punch (unit)	26974-0410-31	B4155	96 x 1 fl oz	100
78399 - Citrus Splash (unit)	26974-0410-24	B4155	96 x 1 fl oz	100
156801 - Berry Fusion (unit)	26974-0568-01	B4155	96 x 1 fl oz	100

1. Lee SK, et al. Adv Skin Wound Care. 2006;19:92-6. **2.** Koopman R, et al. Am J Clin Nutr. 2009;90:106-15. **3.** Morris Jr, SM. Annu Rev Nutr. 1992;12:81-101. **4.** Curis E, et al. Amino Acids. 2005;29:177-205. **5.** Wu G, et al. Biochem J. 1992;281:45-8. **6.** Schwedhelm E, et al. Br J Clin Pharmacol. 2008;65:51-9. **7.** Waugh WH, et al. Am J Hematol. 1999;61:216. **8.** Waugh WH, et al. J Natl Med Assoc. 2001;93:363-71.

Nutrition Information:

Nutrients Serving Size: 1 fl oz	Per 30 mL (2 Tbsp)
Calories	100
Protein, g	17
L-Arginine, g	3.2
Fat, g	0
Carbohydrate, g	7
Total Sugars, g	0
Vitamins	
Vitamin C, mg	175
Minerals	
Zinc, mg	10
Sodium, mg	35
Potassium, mg	20
Phosphorus, mg	50

Ingredients:

Hydrolyzed Collagen Protein, Water, Glycerin, Malic Acid, L-Arginine. Contains 2% or less: L-Citrulline, Phosphoric Acid, Ascorbic Acid, L-Tryptophan, L-Cysteine HCL, Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor), Sucralose, Zinc Sulfate.

Berry Fusion and Wild Cherry Punch flavored version of this product contains 2% or less of each of the following: Natural Flavors.

Citrus Splash flavored version of this product contains 2% or less of each of the following: Natural and Artificial Flavors.

Administration:

- Use under medical supervision
- Healthcare professionals should determine intake based on condition, estimated need, and dietary intake.
- Administer orally or through feeding tube.

Suggested Intake:

- 1-3 servings per day.
  One serving = 1 fl oz.

Oral Feeding:

- Shake well before opening.
- Can be taken straight or mixed with any hot or cold food or beverage.

Tube Feeding:

1. Flush feeding tube with 30-60 mL of water.
2. Pour 30 mL of Pro-Stat in a 4-6 fl oz container.
3. Add 30-60 mL water and mix well.
4. Administer Pro-Stat via syringe.
5. Flush with 30-60 mL of water.

Precautions:

- Do not add Pro-Stat to an open or closed system of the tube feeding formula or into a container of enteral feeding.
- Do not add medications to Pro-Stat, even after dilution.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

Storage:

- Store at room temperature.
- Refrigeration causes gelling.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- Do not use if seal is broken.

Pro-Stat® MAX

A hydrolyzed whey- and collagen-based concentrated liquid protein medical food providing 11 g of 1.0 PDCAAS* protein and 80 calories in 1 fl oz.

Main Features:

- Nutrient dense, providing 11 g of 1.0 PDCAAS protein and 80 calories in 1 fl oz to help meet high protein demands[1]
- Whey- and collagen-based hydrolyzed complete protein
- Provides all 9 indispensable amino acids needed for efficient protein synthesis[2-6]
- Gluten-free and soy-free
- Available in great tasting grape flavor
- Available in bottles (4/case) and unit doses (96/case)
- For oral and enteral use

Indications:

- Increased protein needs in low volume related to:
  - Pressure injuries
  - Wounds (diabetic, venous, surgical, burns)
  - Critical illness**
  - Unintentional muscle loss
  - Protein-energy malnutrition
  - Low serum proteins
  - Sarcopenia
  - Pre- and post-surgery

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
98490 - Grape (bottle)	26974-0900-01	B4155	4 x 30 fl oz	2400
98491 - Grape (unit)	26974-1900-01	B4155	96 x 1 fl oz	80

* PDCAAS = Protein Digestibility Corrected Amino Acid Score.
The Food and Agriculture Organization (FAO), World Health Organization (WHO), Institute of Medicine (IOM) and Food and Drug Administration (FDA) use this method for evaluating protein quality. PDCAAS rates the utilization and digestibility of protein.
** ICU stay for >2-3 days.

1. McClave SA, et al. JPEN J Parenter Enteral Nutr. 2016;40:159-211. **2.** Pennings B, et al. Am J Clin Nutr. 2011;93:997-1005. **3.** Katsanos CS, et al. Nutr Res. 2008;28:651-8. **4.** FAO/WHO Expert Consultation. FAO Food and Nutrition Paper. 1991;51. **5.** Institute of Medicine of the National Academies. Dietary Reference Intakes for Energy, Carbohydrates, Fiber, Fat, Fatty Acids, Cholesterol, Protein, and Amino Acids (Macronutrients). 2005: 737. **6.** Castellanos VH, et al. Nutr in Clin Prac. 2006;21:485-504.

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Serving Size: 1 fl oz	
Calories	80
Protein, g	11
Fat, g	0
Carbohydrate, g	9
Minerals	
Sodium, mg	35
Potassium, mg	40
Phosphorus, mg	60
Calcium, mg	60

Ingredients:

Water, Glycerin, Hydrolyzed Whey Protein, Hydrolyzed Collagen Protein, Malic Acid. Contains 2% or less: Natural & Artificial Flavor, Phosphoric Acid, L-Phenylalanine, L-Histidine, L-Tryptophan, L-Methionine, Sucralose, Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor).

Contains: Milk (Whey).

Administration:

- Use under medical supervision.
- Healthcare professionals should determine intake based on condition, estimated need, and dietary intake.
- Administer orally or through feeding tube.

Suggested Intake:

- 1-3 servings per day. One serving = 1 fl oz.

Oral Feeding:

- Shake well before opening.
- Can be taken straight or mixed with any hot or cold food or beverage.

Tube Feeding:

1. Flush feeding tube with 30-60 mL of water.
2. Pour 30 mL of Pro-Stat MAX in a 4-6 fl oz container.
3. Add 30-60 mL water and mix well.
4. Administer Pro-Stat MAX via syringe.
5. Flush with 30-60 mL of water.

Precautions:

- Do not add Pro-Stat to an open or closed system of the tube feeding formula or into a container of enteral feeding.
- Do not add medications to Pro-Stat, even after dilution.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

Storage:

- Store at room temperature.
- Refrigeration causes gelling.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- Do not use if seal is broken.

UTI-Stat®

A ready-to-drink medical food providing cranberry concentrate with added ingredients (vitamin C, D-Mannose, fructo-oligosaccharides (FOS), and bromelain) in a 1 fl oz serving for urinary tract health.

Main Features:

- Clinically supported in 2 published trials to manage urinary tract infections[1-2]
- Low in sugar (1 g sugar per serving)
- Lactose-, gluten-, and soy-free
- Kosher
- Available in cranberry flavor
- Available in bottles (4/case) or unit doses (96/case)
- For oral and enteral use

Indications:

- Management of urinary tract infections
- Urinary tract health

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
78387 - Cranberry (bottle)	26974-0410-66	B4104	4 x 30 fl oz	2100
78404 - Cranberry (unit)	26974-0410-67	B4104	96 x 1 fl oz	70

1. Posthauer ME. The Director. 2008;16:13-6. **2.** Efros M, et al. Urology. 2010;76:841-5.

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Serving Size: 1 fl oz	
Calories	70*
Sugar, g	1
Minerals	
Sodium, mg	15
Potassium, mg	20
Phosphorus, mg	0

Proprietary Blend (Cranberry Concentrate, Ascorbic Acid, D-Mannose, FOS, Bromelain)

**Glycerin provides a source of calories*

Ingredients:

Water, Glycerin, Proprietary Blend (Cranberry Concentrate, Ascorbic Acid, D-Mannose, Fructo-oligosaccharides (FOS), Bromelain). Contains 2 % or less: Sucralose, Acesulfame Potassium, Potassium Sorbate (to preserve flavor), Sodium Benzoate (to preserve flavor), Phosphoric Acid.

Administration:

- Use under medical supervision.
- Administer orally or through feeding tube.

Suggested Intake:

- 1-2 servings per day as needed. One serving = 1 fl oz.

Oral Feeding:

- Can be taken straight or mixed with any hot or cold food or beverage.

Tube Feeding:

1. Flush feeding tube with 30-60 mL water.
2. Measure and administer dose prescribed.
3. Administer UTI-Stat straight into the enteral tube.
4. Flush the tube with additional 30 mL water.

Precautions:

- Not a substitute for antibiotics.
- This product is not intended for use as an analgesic.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

Storage:

- Store at room temperature.
- Refrigeration not necessary.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- Do not use if seal is broken.

REALFOOD BLENDS®

Find more information and resources on these and all of our products at **realfoodblends.com**

Real Food Blends® Beef, Potatoes & Spinach

The only 100% real food meals made from simple ingredients and ready-to-feed for people with feeding tubes.

Main Features:

- Each 9.4 oz pouch yields an approx. 8 fl oz serving delivering 11 g protein, 18 g fat and 30 g of carbohydrate in 330 calories
- 100% real food
- 77% water content
- No dairy, nut, or soy ingredients
- No added vitamins and minerals
- No added sugar* or salt**
- No color added, no flavor added

Nutritional Applications:

- Ideal for patients wanting easy access to a true blended diet.
- A growing body of evidence indicates that blenderized tube feeding may improve common symptoms of formula intolerance:
  - Gagging/Retching[1]
  - Nausea & Vomiting[2]
  - Bowel Function[3]
  - Reflux[4]

*Not a low calorie food **Not a sodium free food

Note: Real Food Blends can be used as a primary source of nutrition or in conjunction with tube feeding formula.

Real food blends does not contain added salt** or dairy products.

Ordering/Reimbursement Information:

Product	HCPCS Code	Reimbursement Code	Product Packaging	Calories Per Pouch
176993	B4149	30669-0449-69	12 x 9.4 oz	330

For reimbursement information, please call our Nutricia Navigator Team at (800) 365-7354

1. Pentiuk et al. JPEN 2011;35:375-79. 2. Gallagher et al. JPEN. 2018;43:1046-60. 3. Schmidt et al. Clinical Nutrition (Edinburgh, Scotland) 2019;38:332-40.
4. Kernizan et al. JPGN. 2020;71:124-28.

Nutrition Information:

Nutrients†	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calories	330	1,392
Protein, g	11	46
Fat, g	18	76
Saturated Fat, g	3	12.7
Monounsaturated Fat, g	4.1	17.2
Polyunsaturated Fat, g	10.0	42.4
Trans Fat, g	0	0
Cholesterol, mg	30	127
Carbohydrate, g	30	127
Fiber, g	2	8.4
Sugars, g	14	59
Added Sugars, g	0	0
Vitamins		
Vitamin A, RAE, mcg	129	546
Vitamin D, mcg	0	0
Vitamin E, α-tocopherol, mg	5	20
Vitamin K, mcg	118	497
Thiamin, mg	0.13	0.56
Riboflavin, mg	0.13	0.54
Vitamin B6, mg	0.33	1.38
Vitamin B12, mcg	0.96	4.04
Niacin, mg	3.01	12.70
Folate (DFE), mcg	49	205
Pantothenic Acid, mg	0.49	2.07
Vitamin C, mg	20	86
Choline, mg	37	157

Minerals	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calcium, mg (mEq)	55 (2.75)	232 (11.60)
Phosphorus, mg (mEq)	141 (9.10)	594 (38.32)
Magnesium, mg (mEq)	41 (3.37)	173 (14.24)
Iron, mg	2	8.44
Zinc, mg	2.39	10.08
Manganese, mg	1.16	4.87
Copper, mcg	0.19	0.81
Selenium, mcg	9	38
Sodium, mg (mEq)	60 (2.61)	253 (11.00)
Potassium, mg (mEq)	607 (15.56)	2561 (65.67)
Free Water, mL	182	770

†For healthcare professionals only.
Each Real Food Blends product is made from 5-8 whole food ingredients. Due to normal nutritional variation in agricultural ingredients, actual nutrient content of our products may differ. The nutrition information presented here for nutrients not on the product label is based on USDA Nutrient Database Standard Reference for the ingredients in the product and is not based on product testing. For individuals dependent on a feeding tube, regular nutritional monitoring is recommended to ensure the diet is adequate and provides all essential nutrients.

Ingredients

Water, Beef, Potatoes, Pineapple Juice Concentrate, Spinach, Grapeseed Oil.

Administration

Recommended for use as directed by a health care professional. Can be used as bolus, pump or gravity feeding with a 14 Fr G-tube or larger. If consistency with gravity or pump feeding is a concern, dilute with fluid. Recommended hang time of 2 hours.

Use a variety of Real Food Blends meals to customize nutrition plans to address the dietary needs of each patients.

Storage Recommendations

Once opened, Real Food Blends should be used within 2 hours, or stored in a refrigerator for up to 24 hours. Discard unused contents thereafter.

Real Food Blends®
Chicken, Carrots & Brown Rice

The only 100% real food meals made from simple ingredients and ready-to-feed for people with feeding tubes.

Main Features:

- Each 9.4 oz pouch yields an approx. 8 fl oz serving delivering 14 g protein, 20 g fat and 28 g of carbohydrate in 340 calories
- 100% real food
- 76% water content
- No dairy, nut, or soy ingredients
- No added vitamins and minerals
- No added sugar* or salt**
- No color added, no flavor added

Nutritional Applications:

- Ideal for patients wanting easy access to a true blended diet.
- A growing body of evidence indicates that blenderized tube feeding may improve common symptoms of formula intolerance:
  - Gagging/Retching[1]
  - Nausea & Vomiting[2]
  - Bowel Function[3]
  - Reflux[4]

*Not a low calorie food **Not a sodium free food

Note: Real Food Blends can be used as a primary source of nutrition or in conjunction with tube feeding formula.

Real food blends does not contain added salt** or dairy products.

Ordering/Reimbursement Information:

Product	HCPCS Code	Reimbursement Code	Product Packaging	Calories Per Pouch
176988	B4149	30669-0449-66	12 x 9.4 oz	340

For reimbursement information, please call our Nutricia Navigator Team at (800) 365-7354

1. Pentiuk et al. JPEN 2011;35:375-79. 2. Gallagher et al. JPEN. 2018;43:1046-60. 3. Schmidt et al. Clinical Nutrition (Edinburgh, Scotland) 2019;38:332-40.
4. Kernizan et al. JPGN. 2020;71:124-28.

Nutrition Information:

Nutrients[†]	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calories	340	1,435
Protein, g	14	59
Fat, g	20	84
Saturated Fat, g	2.5	10.5
Monounsaturated Fat, g	5.2	21.9
Polyunsaturated Fat, g	10.8	45.6
Trans Fat, g	0	0
Cholesterol, mg	45	190
Carbohydrate, g	28	118
Fiber, g	3	12.7
Sugars, g	12	51
Added Sugars, g	0	0
Vitamins		
Vitamin A, RAE, mcg	395	1667
Vitamin D, mcg	0	0
Vitamin E, α-tocopherol, mg	5	21
Vitamin K, mcg	7	30
Thiamin, mg	0.20	0.84
Riboflavin, mg	0.15	0.63
Vitamin B6, mg	0.43	1.81
Vitamin B12, mcg	0.14	0.59
Niacin, mg	5.64	23.80
Folate (DFE), mcg	38	160
Pantothenic Acid, mg	1	4
Vitamin C, mg	25	105
Choline, mg	36	152

Minerals	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calcium, mg (mEq)	38 (1.90)	160 (8.00)
Phosphorus, mg (mEq)	192 (12.39)	810 (52.26)
Magnesium, mg (mEq)	57 (4.69)	241 (19.84)
Iron, mg	1	4.22
Zinc, mg	1.39	5.86
Manganese, mg	0.64	2.70
Copper, mcg	0.20	0.84
Selenium, mcg	17	72
Sodium, mg (mEq)	90 (3.91)	380 (16.52)
Potassium, mg (mEq)	514 (13.18)	2,169 (55.62)
Free Water, mL	181	764

[†]For healthcare professionals only.
Each Real Food Blends product is made from 5-8 whole food ingredients. Due to normal nutritional variation in agricultural ingredients, actual nutrient content of our products may differ. The nutrition information presented here for nutrients not on the product label is based on USDA Nutrient Database Standard Reference for the ingredients in the product and is not based on product testing. For individuals dependent on a feeding tube, regular nutritional monitoring is recommended to ensure the diet is adequate and provides all essential nutrients.

Ingredients

Orange Juice, Cooked Chicken, Carrots, Brown Rice, Grapeseed Oil, Water, Ginger, Roasted Sunflower Seeds.

Administration

Recommended for use as directed by a health care professional. Can be used as bolus, pump or gravity feeding with a 14 Fr G-tube or larger. If consistency with gravity or pump feeding is a concern, dilute with fluid. Recommended hang time of 2 hours.

Use a variety of Real Food Blends meals to customize nutrition plans to address the dietary needs of each patients.

Storage Recommendations

Once opened, Real Food Blends should be used within 2 hours, or stored in a refrigerator for up to 24 hours. Discard unused contents thereafter.

Real Food Blends® Eggs, Apples & Oats

The only 100% real food meals made from simple ingredients and ready-to-feed for people with feeding tubes.

Main Features:

- Each 9.4 oz pouch yields an approx. 8 fl oz serving delivering 8 g protein, 20 g fat and 26 g of carbohydrate in 320 calories
- 100% real food
- 81% water content
- No dairy, nut, or soy ingredients
- No added vitamins and minerals
- No added sugar* or salt**
- No color added, no flavor added

Nutritional Applications:

- Ideal for patients wanting easy access to a true blended diet.
- A growing body of evidence indicates that blenderized tube feeding may improve common symptoms of formula intolerance:
  - Gagging/Retching[1]
  - Nausea & Vomiting[2]
  - Bowel Function[3]
  - Reflux[4]

*Not a low calorie food **Not a sodium free food

Note: Real Food Blends can be used as a primary source of nutrition or in conjunction with tube feeding formula.

Real food blends does not contain added salt** or dairy products.

Ordering/Reimbursement Information:

Product	HCPCS Code	Reimbursement Code	Product Packaging	Calories Per Pouch
176989	B4149	16417-0781-84	12 x 9.4 oz	320

For reimbursement information, please call our Nutricia Navigator Team at (800) 365-7354

1. Pentiuk et al. JPEN 2011;35:375-79. 2. Gallagher et al. JPEN. 2018;43:1046-60. 3. Schmidt et al. Clinical Nutrition (Edinburgh, Scotland) 2019;38:332-40.
4. Kernizan et al. JPGN. 2020;71:124-28.

Nutrition Information:

Nutrients[†]	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calories	320	1,350
Protein, g	8	34
Fat, g	20	84
Saturated Fat, g	3	12.7
Monounsaturated Fat, g	4.8	20.3
Polyunsaturated Fat, g	11.2	47.2
Trans Fat, g	0	0
Cholesterol, mg	190	802
Carbohydrate, g	26	110
Fiber, g	3	12.7
Sugars, g	15	63
Added Sugars, g	0	0
Vitamins		
Vitamin A, RAE, mcg	95	402
Vitamin D, mcg	1	4.2
Vitamin E, α-tocopherol, mg	1	4
Vitamin K, mcg	5	20
Thiamin, mg	0.10	0.41
Riboflavin, mg	0.29	1.24
Vitamin B_6, mg	0.19	0.78
Vitamin B_{12}, mcg	0.46	1.96
Niacin, mg	0.47	2.00
Folate (DFE), mcg	38	160
Pantothenic Acid, mg	1.09	4.60
Vitamin C, mg	44	184
Choline, mg	161	679

Minerals	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calcium, mg (mEq)	46 (2.30)	194 (9.70)
Phosphorus, mg (mEq)	189 (12.19)	797 (51.42)
Magnesium, mg (mEq)	37 (3.05)	157 (12.92)
Iron, mg	2	8.44
Zinc, mg	1.37	5.78
Manganese, mg	0.48	2.02
Copper, mcg	0.14	0.61
Selenium, mcg	19	80
Sodium, mg (mEq)	80 (3.48)	338 (14.70)
Potassium, mg (mEq)	239 (6.13)	1,008 (25.85)
Free Water, mL	191	805

[†]For healthcare professionals only.
Each Real Food Blends product is made from 5-8 whole food ingredients. Due to normal nutritional variation in agricultural ingredients, actual nutrient content of our products may differ. The nutrition information presented here for nutrients not on the product label is based on USDA Nutrient Database Standard Reference for the ingredients in the product and is not based on product testing. For individuals dependent on a feeding tube, regular nutritional monitoring is recommended to ensure the diet is adequate and provides all essential nutrients.

Ingredients

Apples, Whole Eggs, Water, Zucchini, Flaxseed Oil, Rolled Oats. Contains: Eggs.

Administration

Recommended for use as directed by a health care professional. Can be used as bolus, pump or gravity feeding with a 14 Fr G-tube or larger. If consistency with gravity or pump feeding is a concern, dilute with fluid. Recommended hang time of 2 hours.

Use a variety of Real Food Blends meals to customize nutrition plans to address the dietary needs of each patients.

Storage Recommendations

Once opened, Real Food Blends should be used within 2 hours, or stored in a refrigerator for up to 24 hours. Discard unused contents thereafter.

Real Food Blends® Quinoa, Kale & Hemp

PLANT BASED

The only 100% real food meals made from simple ingredients and ready-to-feed for people with feeding tubes.

Main Features:

- Each 9.4 oz pouch yields an approx. 8 fl oz serving delivering 12 g protein, 19 g fat and 32 g of carbohydrate in 340 calories
- Plant-based
- 100% real food
- 75% water content
- No dairy, nut, or soy ingredients
- No added vitamins and minerals
- No added sugar* or salt**
- No color added, no flavor added

*Not a low calorie food **Not a sodium free food

Note: Real Food Blends can be used as a primary source of nutrition or in conjunction with tube feeding formula.

Real food blends does not contain added salt** or dairy products.

Nutritional Applications:

- Ideal for patients wanting easy access to a true blended diet.
- A growing body of evidence indicates that blenderized tube feeding may improve common symptoms of formula intolerance:
  - Gagging/Retching[1]
  - Nausea & Vomiting[2]
  - Bowel Function[3]
  - Reflux[4]

Ordering/Reimbursement Information:

Product	HCPCS Code	Reimbursement Code	Product Packaging	Calories Per Pouch
176992	B4149	30669-0449-68	12 x 9.4 oz	340

For reimbursement information, please call our Nutricia Navigator Team at (800) 365-7354

1. Pentiuk et al. JPEN 2011;35:375-79. 2. Gallagher et al. JPEN. 2018;43:1046-60. 3. Schmidt et al. Clinical Nutrition (Edinburgh, Scotland) 2019;38:332-40.
4. Kernizan et al. JPGN. 2020;71:124-28.

Nutrition Information:

Nutrients[†]	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calories	340	1,435
Protein, g	12	51
Fat, g	19	80
Saturated Fat, g	2.5	10.5
Monounsaturated Fat, g	12.3	51.9
Polyunsaturated Fat, g	2.5	10.5
Trans Fat, g	0	0
Cholesterol, mg	0	0
Carbohydrate, g	32	135
Fiber, g	6	25.3
Sugars, g	17	72
Added Sugars, g	0	0
Vitamins		
Vitamin A, RAE, mcg	72	304
Vitamin D, mcg	0	0
Vitamin E, α-tocopherol, mg	4	17
Vitamin K, mcg	217	916
Thiamin, mg	0.29	1.22
Riboflavin, mg	0.16	0.68
Vitamin B6, mg	0.20	0.84
Vitamin B12, mcg	0	0
Niacin, mg	1.98	8.35
Folate (DFE), mcg	74	312
Pantothenic Acid, mg	0.20	0.84
Vitamin C, mg	9	38
Choline, mg	10	42

Minerals	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calcium, mg (mEq)	125 (6.25)	527 (26.35)
Phosphorus, mg (mEq)	355 (22.90)	1,498 (96.65)
Magnesium, mg (mEq)	157 (12.92)	662 (54.49)
Iron, mg	7	29.54
Zinc, mg	2.21	9.32
Manganese, mg	2	8
Copper, mcg	0.40	1.69
Selenium, mcg	2	8
Sodium, mg (mEq)	20 (0.87)	84 (3.65)
Potassium, mg (mEq)	401 (10.28)	1,692 (43.38)
Free Water, mL	178	751

[†]For healthcare professionals only.
Each Real Food Blends product is made from 5-8 whole food ingredients. Due to normal nutritional variation in agricultural ingredients, actual nutrient content of our products may differ. The nutrition information presented here for nutrients not on the product label is based on USDA Nutrient Database Standard Reference for the ingredients in the product and is not based on product testing. For individuals dependent on a feeding tube, regular nutritional monitoring is recommended to ensure the diet is adequate and provides all essential nutrients.

Ingredients

Grape Juice, Water, Kale, Hemp Powder, Extra Virgin Olive Oil, Quinoa, Cinnamon.

Administration

Recommended for use as directed by a health care professional. Can be used as bolus, pump or gravity feeding with a 14 Fr G-tube or larger. If consistency with gravity or pump feeding is a concern, dilute with fluid. Recommended hang time of 2 hours.

Use a variety of Real Food Blends meals to customize nutrition plans to address the dietary needs of each patients.

Storage Recommendations

Once opened, Real Food Blends should be used within 2 hours, or stored in a refrigerator for up to 24 hours. Discard unused contents thereafter.

Real Food Blends® Salmon, Oats & Squash

The only 100% real food meals made from simple ingredients and ready-to-feed for people with feeding tubes.

Main Features:

- Each 9.4 oz pouch yields an approx. 8 fl oz serving delivering 12 g protein, 20 g fat, and 25 g of carbohydrate in 330 calories
- 100% real food
- 79% water content
- No dairy, nut, or soy ingredients
- No added vitamins and minerals
- No added sugar* or salt**
- No color added, no flavor added

Nutritional Applications:

- Ideal for patients wanting easy access to a true blended diet.
- A growing body of evidence indicates that blenderized tube feeding may improve common symptoms of formula intolerance:
  - Gagging/Retching[1]
  - Nausea & Vomiting[2]
  - Bowel Function[3]
  - Reflux[4]

*Not a low calorie food **Not a sodium free food

Note: Real Food Blends can be used as a primary source of nutrition or in conjunction with tube feeding formula.

Real food blends does not contain added salt** or dairy products.

Ordering/Reimbursement Information:

Product	HCPCS Code	Reimbursement Code	Product Packaging	Calories Per Pouch
176987	B4149	30669-0449-67	12 x 9.4 oz	330

For reimbursement information, please call our Nutricia Navigator Team at (800) 365-7354

1. Pentiuk et al. JPEN 2011;35:375-79. 2. Gallagher et al. JPEN. 2018;43:1046-60. 3. Schmidt et al. Clinical Nutrition (Edinburgh, Scotland) 2019;38:332-40. 4. Kernizan et al. JPGN. 2020;71:124-28.

Nutrition Information:

Nutrients[†]	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calories	330	1,392
Protein, g	12	51
Fat, g	20	84
Saturated Fat, g	3	12.7
Monounsaturated Fat, g	5.0	21.1
Polyunsaturated Fat, g	11.4	48.1
Trans Fat, g	0	0
Cholesterol, mg	25	105
Carbohydrate, g	25	105
Fiber, g	3	12.7
Sugars, g	10	42
Added Sugars, g	0	0
Vitamins		
Vitamin A, RAE, mcg	140	591
Vitamin D, mcg	7	29.54
Vitamin E, α-tocopherol, mg	0.77	3.25
Vitamin K, mcg	4	17
Thiamin, mg	0.12	0.51
Riboflavin, mg	0.10	0.42
Vitamin B6, mg	0.24	1.01
Vitamin B12, mcg	0.60	2.53
Niacin, mg	4.32	18.23
Folate (DFE), mcg	31	131
Pantothenic Acid, mg	0.64	2.70
Vitamin C, mg	4	17
Choline, mg	51	215

Minerals	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calcium, mg (mEq)	43 (2.15)	181 (9.05)
Phosphorus, mg (mEq)	205 (13.23)	865 (55.81)
Magnesium, mg (mEq)	72 (5.93)	304 (25.02)
Iron, mg	1	4.22
Zinc, mg	0.85	3.59
Manganese, mg	0.66	2.78
Copper, mcg	0.11	0.46
Selenium, mcg	22	93
Sodium, mg (mEq)	25 (1.09)	106 (4.6)
Potassium, mg (mEq)	300 (7.69)	1,266 (32.46)
Free Water, mL	187	789

[†]For healthcare professionals only.
Each Real Food Blends product is made from 5-8 whole food ingredients. Due to normal nutritional variation in agricultural ingredients, actual nutrient content of our products may differ. The nutrition information presented here for nutrients not on the product label is based on USDA Nutrient Database Standard Reference for the ingredients in the product and is not based on product testing. For individuals dependent on a feeding tube, regular nutritional monitoring is recommended to ensure the diet is adequate and provides all essential nutrients.

Ingredients

Pomegranate Juice, Water, Squash Puree, Salmon, Rolled Oats, Flaxseed Oil.

Administration

Recommended for use as directed by a health care professional. Can be used as bolus, pump or gravity feeding with a 14 Fr G-tube or larger. If consistency with gravity or pump feeding is a concern, dilute with fluid. Recommended hang time of 2 hours.

Use a variety of Real Food Blends meals to customize nutrition plans to address the dietary needs of each patients.

Storage Recommendations

Once opened, Real Food Blends should be used within 2 hours, or stored in a refrigerator for up to 24 hours. Discard unused contents thereafter.

Real Food Blends® Turkey, Sweet Potatoes & Peaches

The only 100% real food meals made from simple ingredients and ready-to-feed for people with feeding tubes.

Main Features:

- Each 9.4 oz pouch yields an approx. 8 fl oz serving delivering 14 g protein, 19 g fat and 23 g of carbohydrate in 320 calories
- 100% real food
- 68% water content
- No dairy, nut, or soy ingredients
- No added vitamins and minerals
- No added sugar* or salt**
- No color added, no flavor added

Nutritional Applications:

- Ideal for patients wanting easy access to a true blended diet.
- A growing body of evidence indicates that blenderized tube feeding may improve common symptoms of formula intolerance:
  - Gagging/Retching[1]
  - Nausea & Vomiting[2]
  - Bowel Function[3]
  - Reflux[4]

*Not a low calorie food **Not a sodium free food

Note: Real Food Blends can be used as a primary source of nutrition or in conjunction with tube feeding formula.

Real food blends does not contain added salt** or dairy products.

Ordering/Reimbursement Information:

Product	HCPCS Code	Reimbursement Code	Product Packaging	Calories Per Pouch
176990	B4149	16417-0781-86	12 x 9.4 oz	320

For reimbursement information, please call our Nutricia Navigator Team at (800) 365-7354

1. Pentiuk et al. JPEN 2011;35:375-79. 2. Gallagher et al. JPEN. 2018;43:1046-60. 3. Schmidt et al. Clinical Nutrition (Edinburgh, Scotland) 2019;38:332-40.
4. Kernizan et al. JPGN. 2020;71:124-28.

Nutrition Information:

Nutrients[†]	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calories	320	1,350
Protein, g	14	59
Fat, g	19	80
Saturated Fat, g	3	12.7
Monounsaturated Fat, g	12.9	54.3
Polyunsaturated Fat, g	2.5	10.7
Trans Fat, g	0	0
Cholesterol, mg	55	232
Carbohydrate, g	23	97
Fiber, g	4	16.9
Sugars, g	9	38
Added Sugars, g	0	0
Vitamins		
Vitamin A, RAE, mcg	485	2,046
Vitamin D, mcg	0	0
Vitamin E, α-tocopherol, mg	4	18
Vitamin K, mcg	35	147
Thiamin, mg	0.10	0.42
Riboflavin, mg	0.25	1.05
Vitamin B_6, mg	0.39	1.65
Vitamin B_{12}, mcg	0.73	3.06
Niacin, mg	4.68	19.76
Folate (DFE), mcg	22	94
Pantothenic Acid, mg	1.28	5.39
Vitamin C, mg	5	21
Choline, mg	45	190

Minerals	9.4 oz/267 g (237 mL serving)	Per 1000 mL
Calcium, mg (mEq)	50 (2.50)	211 (10.55)
Phosphorus, mg (mEq)	182 (11.74)	769 (49.61)
Magnesium, mg (mEq)	43 (3.54)	183 (15.06)
Iron, mg	1	4.22
Zinc, mg	1.68	7.07
Manganese, mg	0.25	1.04
Copper, mcg	0.39	1.66
Selenium, mcg	10	43
Sodium, mg (mEq)	80 (3.48)	338 (14.70)
Potassium, mg (mEq)	664 (17.03)	2,802 (71.85)
Free Water, mL	161	681

[†]For healthcare professionals only.
Each Real Food Blends product is made from 5-8 whole food ingredients. Due to normal nutritional variation in agricultural ingredients, actual nutrient content of our products may differ. The nutrition information presented here for nutrients not on the product label is based on USDA Nutrient Database Standard Reference for the ingredients in the product and is not based on product testing. For individuals dependent on a feeding tube, regular nutritional monitoring is recommended to ensure the diet is adequate and provides all essential nutrients.

Ingredients

Sweet Potatoes, Peaches, Turkey, Water, Olive Oil, Green Beans.

Administration

Recommended for use as directed by a health care professional. Can be used as bolus, pump or gravity feeding with a 14 Fr G-tube or larger. If consistency with gravity or pump feeding is a concern, dilute with fluid. Recommended hang time of 2 hours.

Use a variety of Real Food Blends meals to customize nutrition plans to address the dietary needs of each patients.

Storage Recommendations

Once opened, Real Food Blends should be used within 2 hours, or stored in a refrigerator for up to 24 hours. Discard unused contents thereafter.

Real Food Blends® Mini
Prunes, Pears & Pumkin

PLANT BASED

Real Food Blends Mini Prunes, Pears & Pumpkin is a 100% real food snack made from simple ingredients for people with feeding tubes, with 3g dietary fiber per 4 oz serving.

Main Features:

- 3 g of fiber from real food per 4 oz pouch
- Each 4 oz pouch contains 1 g protein, 1.5 g fat and 24 g of carbohydrate in 100 calories
- Plant-based
- 100% real food
- 75% water content
- No dairy, nut, or soy ingredients
- No added vitamins or minerals
- No added sugar* or salt**
- No color added, no flavor added
- Small volume (4 oz) & 100 calories per pouch: easy to start adding real food to tube feeding routine or use with blenderized diet
- Contains consciously-chosen ingredients to aid with bowel function

Ordering/Reimbursement Information:

Product	HCPCS Code	Reimbursement Code	Product Packaging	Calories Per Pouch
182829	B4149	49735-0100-83	12 x 4 oz	100

For reimbursement information, please call our Nutricia Navigator Team at (800) 365-7354

*Not a low calorie food **Not a sodium free food

Nutrition Information:

Nutrients	Per pouch (4 oz, 113 g)
Calories	100
Protein, g	1
Fat, g	1.5
Carbohydrate, g	24
Dietary Fiber, g	3

	Per pouch (4 oz, 113 g)
Vitamins	
Vitamin D, IU (mcg)	0 (0)
Minerals	
Calcium, mg	20
Iron, mg	0.9
Sodium, mg	15
Potassium, mg	280

Ingredients

Prune Puree, Pear Puree, Pumpkin Puree, Water, Flaxseed Oil.

Administration

Recommended for use as directed by a health care professional. Can be used as bolus, pump or gravity feeding with a 12 Fr G-tube or larger. If consistency with gravity or pump feeding is a concern, dilute with fluid. Recommended hang time of 2 hours.

Use a variety of Real Food Blends meals to customize nutrition plans to address the dietary needs of each patients.

Storage Recommendations

Once opened, Real Food Blends should be used within 2 hours, or stored in a refrigerator for up to 24 hours. Discard unused contents thereafter.

SODIUM

Real Food Blends is made from whole food ingredients which are naturally low in sodium. Simply add salt, chicken broth, etc. to meet your patients' specific needs.

Sodium Recommendations:*

Age (yrs):	
1 -3	<1200 mg / daily
4-8	<1500 mg / daily
9-13	<1800 mg / daily
14+	<2300 mg / daily

Sources of Sodium:**

- 1/4 tsp iodized salt = 575 mg
- 1/2 tsp iodized salt = 1,150 mg
- 5 fl oz chicken broth = 550 mg†
- 8 fl oz milk = 100 mg†

CALCIUM

Real Food Blends does not contain any cow milk or dairy ingredients due to cow milk allergy and lactose intolerance being relatively common. Dairy products or other foods that are good sources of calcium can be added to the meals to meet your patients' specific needs or you can add an age-appropriate multivitamin to meet these needs.

Calcium Recommendations:*

Age (yrs)	Male	Female
1-3	700 mg	700 mg
4-8	1,000 mg	1,000 mg
9-13	1,300 mg	1,300 mg
14-18	1,300 mg	1,300 mg
19-50	1,000 mg	1,000 mg
51-70	1,000 mg	1,200 mg
71+	1,200 mg	1,200 mg

Easy-to-Feed Sources of Calcium**

- Almondmilk, unsweetened, 8 fl oz = 385 mg††
- Yogurt plain, nonfat, 8 oz = 488 mg†
- Kefir, plain, lowfat, 8 oz = 317mg†
- Milk, lowfat (1%), 8 fl oz = 305 mg†
- Soymilk, unsweetened, 8 fl oz = 301 mg††

CONSIDERATIONS

If micronutrients are a concern, a 100% complete multivitamin can be a simple solution, and if needed an additional calcium supplement. We understand that nutrition isn't one size fits all. Blenderized tube feeding, and therefore Real Food Blends, is customizable to help meet individual patient's nutrition needs.

*Guidelines have been updated under 2020-2025 publication of Dietary Guidelines for Americans. U.S. Department of Agriculture and U.S. Department of Health and Human Services. *Dietary Guidelines for Americans, 2020-2025.* 9th Edition. December 2020. Available at DietaryGuidelines.gov.

**Nutritional information is calculated based on USDA FoodData Central Database.

†Specific nutritional information may vary by brand/variety. ††Fortified with calcium.

Habul, age 4
Diagnosed with MSUD

OTHER NUTRITIONALS

NLC™
NUTRICIA LEARNING CENTER

Find more information and resources on these and all of our products at **www.NutriciaLearningCenter.com**

Monogen®

A milk protein-based powdered medical food, low in fat, high in medium chain triglycerides (MCT). For supplemental use in individuals over 1 year of age.

Main Features:

- 26% of calories from fat
- 84% of fat as MCT
- Contains DHA and ARA
- Provides protein as a casein/whey mix; casein 61%, whey 39%
- Contains complete profile of vitamins and minerals including trace elements
- Osmolality:
  Dilution
  0.74 kcal/mL: 240 mOsm/kg H_2O
  1.0 kcal/mL: 365 mOsm/kg H_2O

Indications:

- Long chain fatty acid oxidation disorders
- Hyperlipoproteinemia type 1
- Other lipid and lymphatic disorders where a low fat, high MCT diet is indicated
- Chylothorax

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
106033	49735-0160-33	B4150, B4158, B4157, or B4162	6 x 400 g (14.1 oz)	1764

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal
Calories, kcal	441	100
Protein, g	12.8	2.9
Fat, g	12.9	2.9
MCT, g	10.9	2.5
LCT, g	2.0	0.45
Linoleic acid, mg	869	197
α-Linolenic acid, mg	175	39.7
ARA, mg	60	14.1
DHA, mg	60	14.1
Carbohydrate, g	68.6	15.6
Vitamins		
Vitamin A, IU (mcg RE)	1158 (348)	263 (79.1)
Vitamin D_3, IU (mcg)	428 (10.7)	97.2 (2.4)
Vitamin E, IU (mg α-TE)	6.6 (4.4)	1.5 (1.0)
Vitamin K, mcg	16.1	3.7
Thiamin, mg	0.32	0.07
Riboflavin, mg	0.47	0.11
Vitamin B_6, mg	0.40	0.09
Vitamin B_{12}, mcg	0.57	0.13
Niacin, mg	2.7	0.61
Folic Acid, mcg	63.2	14.4

Vitamins	Per 100 g	Per 100 kcal
Pantothenic Acid, mg	2.0	0.45
Biotin, mcg	14.0	3.2
Vitamin C, mg	53.9	12.2
Choline, mg	90.9	20.6
Inositol, mg	78.7	17.9
Minerals		
Calcium, mg	329	74.7
Phosphorus, mg	198	44.9
Magnesium, mg	39.6	9.0
Iron, mg	6.0	1.4
Zinc, mg	4.1	0.93
Manganese, mg	0.03	0.01
Copper, mcg	323	73.2
Iodine, mcg	79.6	18.1
Molybdenum, mcg	21.6	4.9
Chromium, mcg	8.9	2.0
Selenium, mcg	15.6	3.6
Sodium, mg	189	42.9
Potassium, mg	357	81.2
Chloride, mg	271	61.6

Ingredients:

Maltodextrin, Skim Milk Powder, Refined Vegetable Oil (Modified Palm Kernel and/or Coconut Oil [Medium Chain Triglycerides]), Whey Protein Concentrate (Milk), Caseinate (Milk), Refined Walnut Oil, Sodium Citrate, Corn Syrup Solids, Potassium Chloride, Calcium Carbonate, Magnesium Hydrogen Phosphate, *C. cohnii* Oil, Choline Chloride, *M. alpina* Oil, L-Valine, Inositol, L-Ascorbic Acid, Refined High Oleic Sunflower Oil, L-Tryptophan, Sodium L-Ascorbate, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Niacinamide, DL-Alpha Tocopherol, Calcium D-Pantothenate, Copper Sulfate, Pyridoxine Hydrochloride, Vitamin A Acetate, Thiamine Hydrochloride, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Manganese Sulfate, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Sodium Selenite, Cholecalciferol.

Contains: Milk, Walnut Oil, Coconut Oil

Administration:

- Intake to be determined by a medical professional and is dependent on the age, body weight and medical condition of the patient.
- Regular monitoring of essential fatty acids is recommended.
- For oral and tube feeding in individuals over 1 year of age.

For oral or tube feeding:

1. Measure the required amount of warmed water into a container.
2. Add the prescribed amount of Monogen to the water. The scoop provided in the can measures 5.6 g (level and unpacked).
3. Cover and shake until the powder has dissolved.

The following are guidelines for achieving desired concentrations:

Concentration	Powder	Water	Final Volume
22 kcal/30 mL (0.74 kcal/mL)	16.8 g (3 Scoops)	90 mL (3 fl oz)	100 mL (3.3 fl oz)
30 kcal/30 mL (1.0 kcal/mL)	22.7 g (4 Scoops)	80 mL (2.5 fl oz)	100 mL (3.3 fl oz)

Unpacked, level scoops are approximations only. For accuracy, use a gram scale.

Once prepared, the formula should be stored in a refrigerator and kept no longer than 12 hours from the time of preparation. Shake or stir Monogen immediately before use.

Precautions:

- Use under medical supervision.
- Not for parenteral use.

Storage:

Store in a cool, dry place. Once opened, use contents within 1 month. Replace lid firmly after use.

Liquigen®

A high energy medium-chain triglyceride (MCT) emulsion for conditions where MCTs are part of dietary management, such as long-chain fatty acid oxidation disorders or conditions managed by the medical ketogenic diet. A medical food.

Main Features:

- Simplifies addition of MCTs to the diet
- Emulsified for better mixing
- 50% MCT/ 50% water
- Unflavored
- High energy: 4.5 kcal/mL
- Osmolality: 10 mOsm/kg H_2O
- Density: 0.97 g/mL
- For oral or enteral use
- Can be used in beverages and foods

Indications:

- Conditions where MCTs are part of dietary management, such as:
- Conditions managed by the medical ketogenic diet
- Long-chain fatty acid oxidation disorders
- Chylothorax
- Fat malabsorption
- Short bowel syndrome

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Bottle
71957	49735-0195-73	B4155	4 x 250 mL (8.5 fl oz)	1125

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 mL	Per 250 mL
Calories	450	1125
Protein, g	None	None
Carbohydrate, g	None	None
Fat, g	50.0	125
Saturated, g	47.1	118
*MCT, g	45.4	114
*LCT, g	1.39	3.49
Minerals		
Calcium, mg	0.30	0.75
Sodium, mg	5.0	12.5
Potassium, mg	0.10	0.25
Chloride, mg	0.10	0.25

* Listed as fatty acids

Ingredients:

Refined Vegetable Oil (Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil)), Water, Citric Acid Esters of Mono- and Diglycerides (CITREM), Mono- and Diglycerides, Citric Acid.

Administration:

- The quantity of Liquigen should be determined by a healthcare professional only and is dependent on the age, bodyweight and medical condition of the patient.
- Liquigen may require dilution for children under 5 years of age.
- **Shake well before use.**

Precautions:

- Use under medical supervision.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

Storage:

- Recommended storage between 39°-77°F (4°-25°C).
- Once opened, store in a refrigerator and use within 14 days.
- Always replace the bottle lid after use.

Duocal®

A powdered medical food providing fat and carbohydrate for increased caloric intake.

Main Features:

- Calorically dense – 1 scoop (5 g) provides 25 kcal
- Unique dual energy source of fat and carbohydrate
- Soluble in liquids and moist foods without altering taste or texture
- Milk protein free
- Osmolality (1:3 dilution): 310 mOsm/kg H_2O
- 1 gram contributes approximately 0.93 mOsm when added to a solution
- PRSL of less than 0.017 mOsm/g
- Energy distribution:
  Carbohydrate 59%
  Fat (MCT 50% / LCT 50%) 41%
- Displacement 0.77 mL/g

Indications:

- Conditions where a high-energy, low-fluid, low-electrolytes diet is indicated
- Protein-restricted diets
- Disorders of protein and amino acid metabolism
- Malabsorptive states
- Modular diets
- Catabolic states (e.g. burns, trauma, post-operative stress)
- Suitable for oral and tube feedings

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
49828	49735-0182-62	B4155	6 x 400 g (14.1 oz)	1968

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 g
Calories	492
Protein, g	0
Fat, g	22.3
Saturated, g	13.8
Monounsaturated, g	2.5
Polyunsaturated, g	4.8
Carbohydrate, g	72.7
Minerals	
Sodium, mg	≤20.0
Potassium, mg	≤5.0
Chloride, mg	≤20.0
Calcium, mg	≤5.0
Phosphorus, mg	≤5.0

Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Corn Oil, Non-Hydrogenated Coconut Oil, Modified Coconut and/or Palm Kernel Oil (Medium Chain Triglycerides)), Mono- and Diglycerides, Diacetyl Tartaric Acid Esters of Mono- and Diglycerides.

Household Measures:

(all measures are unpacked)

Measure	Weight	Calories
1 Scoop	5 g	25
1 tsp	2.4 g	12
1 Tbsp	7.3 g	36
1/4 cup	28.3 g	144
1/2 cup	56.5 g	288
1 cup	117 g	576

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

Precautions:

- Use under medical supervision.
- Not for parenteral use.
- Not suitable as the sole source of nutrition.

Administration:

- For individuals 1 year and above.
- Intake to be determined by a medical professional and is dependent on the age, body weight and medical condition of the patient.

For oral or tube feeding:

1. Measure the recommended amount of Duocal.
2. Add powder to the required volume of liquid and/or soft food and stir continuously until the powder has dissolved. A level scoop holds approximately 5 g of powder (25 kcal).
3. Unused foods and liquids mixed with Duocal should be refrigerated and used within 24 hours. Shake or stir immediately before serving.

Storage:

- Store unopened can in a cool, dry place. Once opened, use contents within 1 month. Replace lid firmly after use.

Polycal™

A powdered, concentrated source of energy (maltodextrin). A medical food.

Main Features:

- Calorically dense – 1 scoop provides approximately 5 g (~20 kcal)
- Easily digestible maltodextrin
- Completely soluble in foods and drinks
- Neutral taste – does not alter the taste of foods and drinks
- Osmolality (10% solution): 104 mOsm/kg H_2O
- 1 gram contributes approximately 1.04 mOsm when added to a solution
- PRSL < 0.01 mOsm/10 g
- Displacement: 0.57 mL/g

Indications:

- Conditions where a high energy, low fluid or modular diet is indicated.
- For the dietary management of energy needs in patients with inborn errors of metabolism.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
89461	49735-0111-52	B4155	12 x 400 g (14.1 oz)	1536

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 g
Calories	384
Carbohydrate, g	96.0
Protein, g	0
Fat, g	0
Minerals	
Sodium, mg	2.0
Potassium, mg	0

Ingredients:

Maltodextrin.

Household Measures:

(all measures are unpacked)

Measure	Weight	Calories
1 Scoop	5 g	~20 kcal
½ tsp	1.2 g	4.6 kcal
1 tsp	2.4 g	9.3 kcal
1 Tbsp	7.3 g	27.8 kcal
¼ cup	29.0 g	111 kcal
⅓ cup	38.7 g	148 kcal
½ cup	58.0 g	223 kcal
1 cup	116 g	445 kcal

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

Precautions:

- Use under medical supervision.
- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

Administration:

Intake to be determined by a medical professional and is dependent on the age, body weight and medical condition of the patient.

- Beverages: Sprinkle the required amount of powder into the beverage and stir well.
- Foods: For best results, mix powder with sufficient liquid to form a smooth paste before stirring into hot or cold food.
- Unfinished beverages and foods should be stored in a refrigerator for up to 24 hours.

Storage:

Store unopened can in a cool, dry place. Once opened, use contents within 1 month. Replace lid firmly after use.

Complete Amino Acid Mix

An unflavored, powdered mixture of essential and non-essential amino acids. A medical food.

Main Features:

- Balanced mixture of essential and non-essential amino acids
- Supplements increased protein needs in enteral formulas
- Complete Amino Acid Mix provides 4 g of protein equivalent per 5 g of powder
- Osmolality (5% w/v): 360 mOsm/kg H_2O
- Approximate displacement: 0.75 mL/g

Indications:

- Conditions in which a nutritionally complete feed is not suitable or a modular approach is required
- Conditions where an oligoallergenic diet is indicated (e.g. eosinphilic esophagitis or individuals with intolerance to milk protein or other whole protein)
- Intractable malabsorption
- Feeding difficulties in post-operative conditions
- Chronic intestinal diseases (e.g. Crohn's disease)
- Short bowel syndrome following intestinal resection

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
53341	49735-0133-41	B4155	6 x 200 g (7 oz)	656

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 g
Calories	328
Protein Equivalent, g	82
Fat, g	0
Carbohydrate, g	0
Amino Acids, g	
L-Alanine	3.5
L-Arginine	7.66
L-Aspartic Acid	6.39
L-Cystine	2.4
L-Glutamic Acid	8.17
Glycine	6.0
L-Histidine	4.38
L-Isoleucine	5.95
L-Leucine	10.2
L-Lysine	7.55
L-Methionine	1.65
L-Phenylalanine	4.5
L-Proline	7.0
L-Serine	4.29
L-Threonine	5.0
L-Tryptophan	2.0
L-Tyrosine	4.3
L-Valine	6.5
L-Glutamine	0.7

Ingredients:

L-Lysine L-Glutamate, L-Leucine, L-Arginine, L-Proline, L-Valine, L-Aspartic Acid, Glycine, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Histidine, L-Serine, L-Tyrosine, L-Alanine, L-Cystine, L-Tryptophan, L-Methionine, L-Glutamine, L-Glutamic Acid.

Household Measures:

(all measures are unpacked)

Measure	Weight	Protein Equivalent
1/2 tsp	1.4 g	1.15
1 tsp	2.9 g	2.38
1/2 Tbsp	4.4 g	3.61
1 Tbsp	9.5 g	7.79

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

Precautions:

- Use under medical supervision.
- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

Administration:

- Dosage should be determined by a doctor or dietitian and is dependent on the age, body weight and medical condition of the patient.
- The recommended feeding concentration is 5% w/v (e.g. 5 g powder to 100 mL of water).
- Complete Amino Acid Mix should be weighed on a scale that reads in grams.
- Best served as a chilled drink, mixed with water, fruit juices or other formulas. Complete Amino Acid Mix may also be added to soft, moist foods, such as applesauce.
- Once reconstituted, the prepared feed should be stored in a refrigerator and must not be kept longer than 24 hours from the time of preparation. Stir or shake immediately before serving.

Storage:

- Store in a cool, dry place. Once opened, use within 1 month. Always replace container lid after use.

Essential Amino Acid Mix

An unflavored, powdered mixture of essential amino acids, including cystine and histidine. A medical food.

Main Features:

- Balanced mixture of essential amino acids
- Essential Amino Acid Mix provides 4 g of protein equivalent per 5 g of powder
- Osmolality (5% w/v): 360 mOsm/kg H_2O
- Approximate displacement: 0.75 mL/g

Indications:

- Dietary management of urea cycle disorders
- Conditions in which a nutritionally complete feed is not suitable or a modular approach is required

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
53342	49735-0133-42	B4155	6 x 200 g (7 oz)	632

WIC‡: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 g
Calories	316
Protein Equivalent, g	79
Fat, g	0
Carbohydrate, g	0
Amino Acids, g	
L-Cystine	3.78
L-Histidine	3.78
L-Isoleucine	10.4
L-Leucine	16.17
L-Lysine	13.25
L-Methionine	3.78
L-Phenylalanine	5.67
L-Threonine	11.35
L-Tryptophan	2.36
L-Tyrosine	9.46
L-Valine	14.56

Ingredients:

L-Lysine Acetate, L-Leucine, L-Valine, L-Threonine, L-Isoleucine, L-Tyrosine, L-Phenylalanine, L-Histidine, L-Cystine, L-Methionine, L-Tryptophan.

Household Measures:

(all measures are unpacked)

Measure	Weight	Protein Equivalent
1/2 tsp	1.4 g	1.11
1 tsp	2.7 g	2.13
1/2 Tbsp	4.1 g	3.24
1 Tbsp	9.0 g	7.11

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

Precautions:

- Use under medical supervision.
- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

Administration:

- Dosage should be determined by a doctor or dietitian and is dependent on the age, body weight and medical condition of the patient.
- The recommended feeding concentration is 5% w/v (e.g. 5 g powder to 100 mL of water).
- Essential Amino Acid Mix should be weighed on a scale that reads in grams.
- Best served as a chilled drink, mixed with water, fruit juices or other formulas. It may also be added to soft, moist foods, such as applesauce.
- Once reconstituted, the prepared feed should be stored in a refrigerator and must not be kept longer than 24 hours from the time of preparation. Stir or shake immediately before serving.

Storage:

- Store in a cool, dry place. Once opened, use within 1 month. Always replace container lid after use.

Phlexy-Vits

A concentrated, powdered vitamin, mineral and trace element preparation designed to help meet the micronutrient requirements of older children (11 years and older) and adults.

Main Features:

- One 7 g packet supplies the majority of vitamins and minerals needed to meet the DRI of individuals 11 years and older

Indications:

- Restrictive therapeutic diets

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Packet
49133	49735-0106-85	A9270	30 x 7 g	0.2

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 7 g packet
Calories	0.20
Protein, g	0.02
Fat, g	0
Carbohydrate, g	0.04
Vitamins	
Vitamin A, IU (mcg RE)	2664 (800)
Vitamin D, IU (mcg)	400 (10.0)
Vitamin E, IU (mg α-TE)	13.5 (9.0)
Vitamin K, mcg	70.0
Thiamin, mg	1.2
Riboflavin, mg	1.4
Vitamin B_6, mg	1.6
Vitamin B_{12}, mcg	5.0
Niacin, mg	20.0
Folic Acid, mcg	700
Pantothenic Acid, mg	5.0
Biotin, mcg	150
Vitamin C, mg	50.0
Minerals	
Calcium, mg	1000
Phosphorus, mg	775
Magnesium, mg	300
Iron, mg	15.1
Zinc, mg	11.1
Manganese, mg	1.5
Copper, mcg	1505
Iodine, mcg	150
Molybdenum, mcg	70.0
Chromium, mcg	30.0
Selenium, mcg	75.0
Sodium, mg	8.8
Potassium, mg	<1.4
Chloride, mg	<0.35

Ingredients:

Calcium Phosphate Dibasic, Magnesium Acetate, Guar Gum, L-Ascorbic Acid, Ferrous Sulfate, Dextrose, Zinc Sulfate, Nicotinamide, DL-Alpha Tocopheryl Acetate, Copper Gluconate, Calcium D-Pantothenate, Manganese Sulfate, Pyridoxine Hydrochloride, Thiamin Mononitrate, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Molybdate, Sodium Selenite, D-Biotin, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

Household Measures:

(all measures are unpacked)

Measure	Weight
1/4 tsp	0.7 g
1/2 tsp	1.4 g
1 tsp	3 g
1 Tbsp	10 g

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

Administration:

- Add a small amount of water and mix to a smooth paste. Add the remaining water to give a final volume of approximately 100 mL.
- Mix one sachet of Phlexy-Vits to a smooth paste with a small amount of lemonade or fruit juice (approx. 1.5 fl oz). Dilute to a final volume of 150 mL (5 fl oz). The amount of lemonade/juice and water used will vary according to taste.

Precautions:

- Not for parenteral use.
- Use under medical supervision.
- Not suitable for use as a sole source of nutrition.

Storage:

- Store in a cool, dry place. Once opened, a sachet should be stored in an airtight container and used within 2-3 days.

RESOURCES

NLC™
NUTRICIA LEARNING CENTER

Nutricia Learning Center is a unique education tool for clinicians managing patients with specialized nutritional requirements. This set of valuable resources and clinical tools includes:

- Recorded Webinars (CE eligible)
- Healthcare Professional Tools
- Patient Education Tools
- Reference Library
- Case Studies

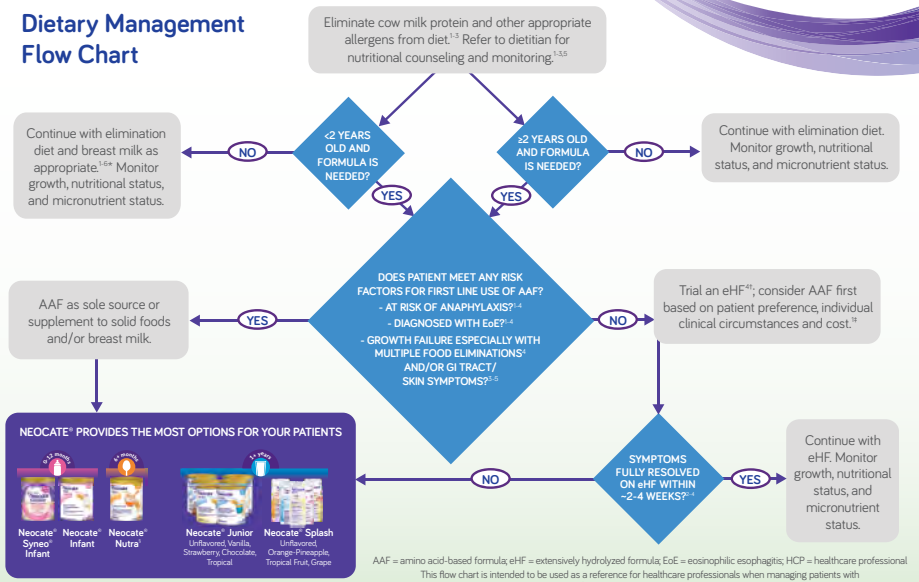
The following pages include pocket-sized versions of treatment flowcharts that are available free at **NutriciaLearningCenter.com**

These flow charts illustrate options for the nutrition management of conditions where specialized medical nutrition therapy may be helpful. They are evidence-based tools that may be used as decision-making guides to help clinicians to determine the best way to nutritionally manage patients. Please visit our website for free electronic copies of these flow charts.

COW MILK ALLERGY/MULTIPLE FOOD ALLERGIES

NUTRICIA neocate

Dietary Management Flow Chart



Individual needs as directed by HCP.
Monitor growth, nutritional status, and micronutrient status.
‡Neocate Nutra is a hypoallergenic semi-solid food - not suitable as sole source of nutrition.

AAF = amino acid-based formula; eHF = extensively hydrolyzed formula; EoE = eosinophilic esophagitis; HCP = healthcare professional
This flow chart is intended to be used as a reference for healthcare professionals when managing patients with cow milk allergy/multiple food allergies as a primary diagnosis.

References: 1. Fiocchi A, et al. 2010;21 Suppl 21:1-125. 2. Koletzko S, et al. J Pediatr Gastroenterol Nutr. 2012;55:221-9. 3. Venter C, et al. Clin Transl Allergy. 2013;3:23. 4. Meyer, et al. J Allergy Clin Immunol Pract. 2018;6:383-99. 5. Ludman S, et al. BMJ. 2013;347:f5424. 6 Vandenplas Y, et al. Arch Dis Child. 2007;92:902-8. 7. Hill DJ, et al. Clin Exp Allergy. 2007;37:808-22.

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FOOD PROTEIN-INDUCED ENTEROCOLITIS SYNDROME (FPIES)

NUTRICIA Neocate®

Dietary Management Flow Chart

Once FPIES has been diagnosed, eliminate identified allergens from diet.[1-3] Refer to dietitian for nutritional counseling and monitoring.[2,5]

<2 YEARS OLD AND FORMULA IS NEEDED?[4]

YES → Select a hypoallergenic formula

NO → Continue with elimination diet and breast milk or milk alternative* as appropriate.[1-3] Monitor growth, nutritional status, and micronutrient status.[1]

≥2 YEARS OLD AND FORMULA IS NEEDED?[4]

NO → Continue with elimination diet. Monitor growth, nutritional status, and micronutrient status.

YES → Trial an eHF[11]; consider AAF first based on patient preference, individual clinical circumstances and cost.[5]

Select a hypoallergenic formula

DOES THE PATIENT HAVE SEVERE FPIES, FPIES ATTRIBUTED TO ALLERGENS IN BREAST MILK OR POOR GROWTH?[1,5]

NO → Trial an eHF[11]; consider AAF first based on patient preference, individual clinical circumstances and cost.[5]

YES → AAF as sole source or supplement to solid foods and/or breast milk.† Re-evaluate every 6-12 months or as per the clinician.

SYMPTOMS RESOLVED AND NORMAL WEIGHT GAIN ON eHF WITHIN 2 TO 4 WEEKS?[5]

NO → AAF as sole source or supplement to solid foods and/or breast milk.† Re-evaluate every 6-12 months or as per the clinician.

YES → Continue with eHF. Monitor growth, nutritional status, and micronutrient status. Re-evaluate every 6-12 months or as per the clinician.

NEOCATE® PROVIDES THE MOST OPTIONS FOR YOUR PATIENTS

Individual needs as directed by HCP.
Monitor growth, nutritional status, and micronutrient status.

AAF = amino acid-based formula; eHF = extensively hydrolyzed formula; HCP = healthcare professional
This flow chart is intended to be used as a reference for healthcare professionals when managing patients with Food Protein-Induced Enterocolitis Syndrome (FPIES) as a **primary** diagnosis.

Nutricia North America supports the use of breast milk wherever possible.
Neocate® is a family of hypoallergenic, amino acid-based medical foods for use under medical supervision and is indicated for cow milk allergy, multiple food allergies and related GI and allergic conditions.
*For 1-2 year old patients, the milk alternative should be food allergy appropriate and nutritionally equivalent to whole cow's milk with adequate calcium, protein, fat and total calories.
†If the patient is exclusively formula or breastfed at 12 months and shows sign of feeding difficulty, refer to a feeding specialist to assess motor skill development.
‡Other options may exist for some patients. For children with soy-induced FPIES, cow milk formula can be recommended for patients without cow milk allergy. For children with cow milk-induced FPIES (CM-induced FPIES), soy formula can be recommended for patients without soy allergy and > 6 months of age. However, cautious introduction is recommended because of the potential for co-reactivity between patients with soy-induced FPIES and those with CM-induced FPIES.[1,2]
§In settings where the cost of an AAF is lower, the use of an AAF may be equally reasonable.[5]
¶The transition period to a hypoallergenic formula will vary among patients and could take as long as two weeks. Once fully transitioned, FPIES symptoms should resolve within 10-14 days.[2,5]
#If symptoms are not resolved with AAF or eHF, consider work up of other conditions, e.g. disaccharidase deficiency.

References: 1. Agyemang, et al. Clin Rev Allergy Immunol. 2019. **2.** Nowak-Wegrzyn, et al. J Allergy Clin Immunol. 2017;139:1111-26e4.
3. Venter, et al. Curr Opin Allergy Clin Immunol. 2014. **4.** Fiocchi, et al. Pediatr Allergy Immunol. 2010;21 Suppl 21:1-125. **5.** Venter, et al. Clin Transl Allergy. 2017;7:26.

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EOSINOPHILIC ESOPHAGITIS

NUTRICIA Neocate®

Dietary Management Flow Chart

Following diagnosis: Discuss patient goals & pros/cons of all options[1]

PATIENT READY TO IDENTIFY FOOD TRIGGERS?[1]

YES → **DIETARY MANAGEMENT** - Consult Registered Dietitian (RD)[2]
Consider as a first-line option for all patients - may allow for prolonged, drug-free remission[2]

ELIMINATION DIET
- Empiric (1-8 foods)
- Test-directed - Consult Allergist[2]

COMBINATION Elimination diet + supplement AAF

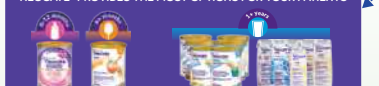
ELEMENTAL DIET (AAF)

MEETING NUTRIENT NEEDS?

YES → Monitor diet efficacy and quality, growth, quality of life, feeding difficulties, and micronutrient status[2]
Reintroduce 1 food/food group at a time as medically feasible/tolerated,[2] or per local protocol - Consult Allergist[8]

NO → Refer to RD Supplement with AAF &/or micronutrients[2]

NEOCATE® PROVIDES THE MOST OPTIONS FOR YOUR PATIENTS



Individual needs as directed by healthcare professional
†Neocate Nutra is a hypoallergenic semi-solid food - not suitable as sole source of nutrition.

DILATION Consider as adjunct for refractory strictures[4*]

Consider **Neocate® Nutra** as delivery vehicle for OVB[7]

NO → Refer to RD Consider supplement with formula &/or micronutrients

PHARMACOLOGIC MANAGEMENT
- Swallowed topical steroid[5†]
- PPI[5†]
- Dupilumab Injection[6‡]

MEETING NUTRIENT NEEDS?

YES → Monitor for:
- relapse/failure
- potential steroid side effects (adrenal insufficiency[9] and esophageal candidiasis[10])
- potential dupilumab side effects[6]

Periodically reassess readiness/ preference for dietary management as long-term solution

Neocate® is a family of hypoallergenic, amino acid-based medical foods for use under medical supervision and is indicated for cow milk allergy, multiple food allergies and related GI and allergic conditions.
AAF = amino acid-based formula; OVB = oral viscous budesonide; PPI = proton pump inhibitor
*Dilation can help manage symptoms, but not underlying esophageal eosinophilia[4]
†Not FDA approved for use in EoE.
‡Dupilumab is indicated to treat adults and children 12 years of age and older, who weigh at least 88 pounds (40 kg), with eosinophilic esophagitis (EoE). It is not known if dupilumab is safe and effective in children with eosinophilic esophagitis under 12 years of age and who weigh at least 88 pounds (40 kg).[6]

1. Doerfler, et al. Dis Esophagus. 2014. **2.** Groetch, et al. J Allergy Clin Immunol Pract. 2017;5:312-24e29.
3. Arias, et al. Gastroenterology. 2014;146:1639-48. **4.** Dellon, et al. Am J Gastroenterol. 2013;108:679-92.
5. Dellon, et al. Gastroenterology. 2018;155:1022-33.e10. **6.** www.dupixent.com. Accessed 01/19/21.
7. Rubinstein, et al. J Pediatr Gastroenterol Nutr. 2014;59:317-20. **8.** Durban, et al. Pract Gastroenterol. 2018;42:40-51. **9.** Philpott, et al. Aliment Pharmacol Ther. 2018;47:1071-8. **10.** Spergel, et al. Allergy. 2020. **11.** Furuta, et al. Gastroenterology. 2007;133:1342-63. **12.** Dellon, et al. Clin Gastroenterol Hepatol. 2014;12:589-96 e1. **13.** Mukkada, et al. Pediatrics. 2010;126:e672-e7. **14.** Lucendo. Curr Gastroenterol Rep. 2015;17:464.

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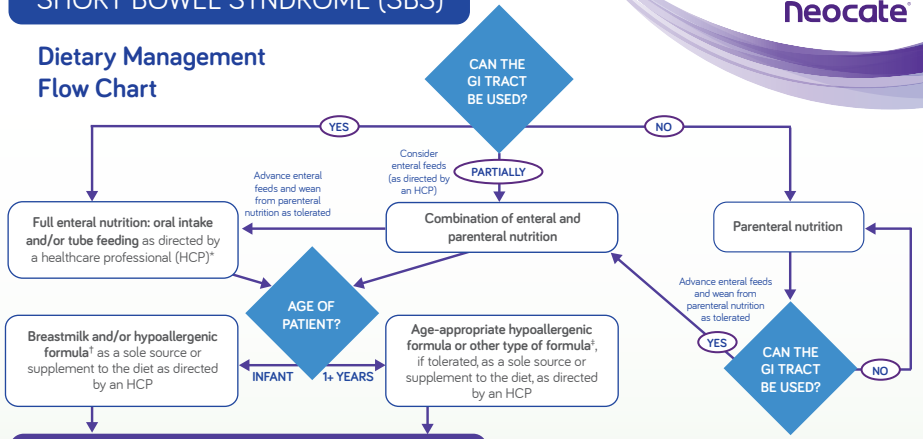
SHORT BOWEL SYNDROME (SBS)

NUTRICIA neocate

Dietary Management Flow Chart



NEOCATE® OFFERS THE MOST OPTIONS FOR YOUR PATIENTS

*Age appropriate complementary food intake, if the child is developmentally ready for oral intake, as directed by an HCP. Oral intake is important to help prevent oral aversion.

†Hypoallergenic formula includes AAF (Amino Acid-Based Formula) and eHF (Extensively Hydrolyzed Formula)

‡Intact protein or peptide formula

Developed in consultation with leading Pediatric Gastroenterologists in the USA.

HCP to determine individual needs and monitor nutritional status. Nutricia North America supports the use of breastmilk wherever possible.
Neocate® is a family of hypoallergenic, amino acid-based medical foods* for use under medical supervision and is indicated for cow milk allergy, multiple food allergies and related GI and allergic conditions.

Neocate Infant DHA/ARA is intended for use in term infants. §Neocate Nutra is a supplemental amino acid-based solid food for 6+ months. ‖Neocate Junior is available with and without a prebiotic (soluble) fiber. Neocate Junior, Unflavored (with & without prebiotics), Neocate Junior, Vanilla, Strawberry, Chocolate & Tropical (with prebiotics).

References: 1. Andorsky et al. J Pediatr. 2001; 139(1):27-33. 2. Bines et al. J Pediatr Gastroenterol Nutr. 1998;26(2):123-8. 3. De Greef E et al. J Nutr Metab. 2010;2010. pii: 297575. doi:10.1155/2010/297575. 4. Nucci et al. Nutr Clin Pract. 2018; 33(4):528-538. 5. Capriati et al. Expert Rev Gastroenterol Hepatol. 2017;11(8):741-748. 6. Duggan et al. N Engl J Med. 2017; 377(7):666-675. 7. Stamm et al, https://www.uptodate.com/contents/management-of-short-bowel-syndrome-in-children. Accessed 10/04/2019.

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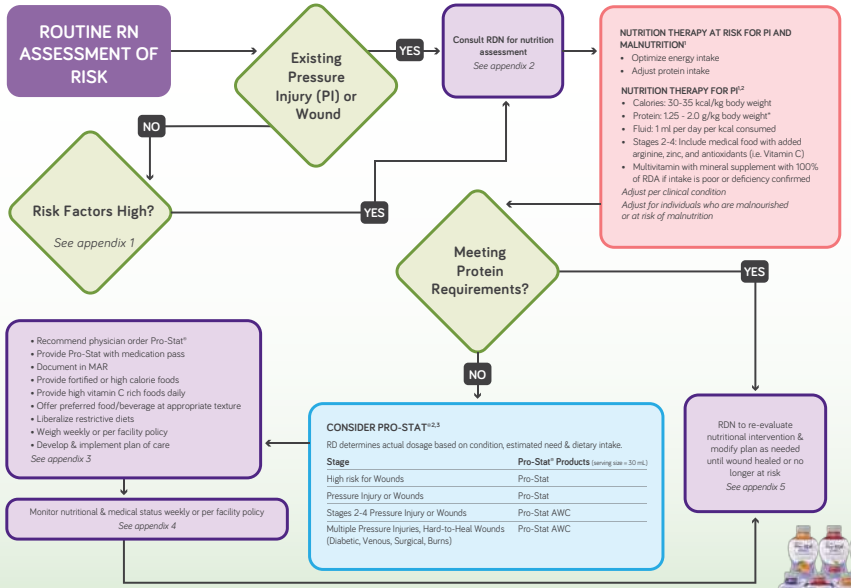
WOUNDS

Dietary Management Flowchart

NUTRICIA Pro-Stat®



Pro-Stat contains 0% fruit juice.

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*Unless contraindicated

Pro-Stat® is a medical food designed for the dietary management of wounds, and other conditions requiring increased protein needs in low volume. **Use under medical supervision.**

WOUNDS
Dietary Management Flowchart

Appendix 1: Risk Factors

1. Braden Scale < 16[4]
2. MNA-SF™ ≤ 11[2] (or other validated nutrition screening tool)
3. Unintended weight loss ≥ 5% in 30 days, ≥ 10% in 180 days
4. Body mass index (≤ 18.5 or ≥ 30)
5. Poor oral intake
6. Receiving enteral/parenteral nutrition
7. Immobility, decline in ADLs
8. Infections (UTI)
9. Identified moderate to high risk for malnutrition
10. Decline in ability to eat independently
11. Chewing/swallowing problem/dysphagia
12. Co-morbid conditions: end-stage renal disease, diabetes, CHF
13. Cognitive impairments
14. Skin exposure to urinary or fecal incontinence
15. History of pressure injuries

Appendix 2: Nutritional Assessment

16. Review diagnosis/medical condition
17. Review skin condition per facility's wound assessment
18. Review of skin assessment & validated nutrition screening tools
19. Current dietary intake
20. Amount & quality of protein provided
21. Body mass index
22. Determine deviation from current body weight
23. Determine nutritional needs
24. Interview for food preferences & intolerances
25. Medications/medical treatments (antibiotics, steroids)
26. Average food/ fluid intake, medical foods, oral nutrition supplements (% consumed)
27. Chewing/swallowing status/ability to eat independently
28. Dehydration risk factors
29. Nutrition related laboratory values: HgbA1C, BUN, etc. Note: serum hepatic protein values are affected by infection, inflammation, hydration and renal function
30. Renal and liver function to ensure tolerance of protein levels
31. Hydration status for individuals with elevated temperature, vomiting, profuse sweating, or heavy draining wounds

Appendix 3: Protein Supplementation

32. Nutrition intervention will be communicated as appropriate to: nursing, dietary, physician, resident, & caregiver
33. Administer PO with med pass, pour amount ordered into med cup
34. Based on preference, it can be mixed with beverage or food of choice
35. If administered via tube-feeding: flush with 30-60 mL water, dilute with 30-60 mL water, & flush tube with additional 30-60 mL
36. **Pro-Stat®** provides: 15 g protein, 100 kcal/30 mL **Pro-Stat® AWC** provides: 17 g protein, 100 kcal/30 mL
37. Pro-Stat and Pro-Stat AWC are lactose free, soy free, gluten free, and kosher
38. Monitor 2-4 weeks & modify as needed to meet nutritional goals
39. Store Pro-Stat at room temp
40. Label & date upon opening, discarding after 3 months

Appendix 4: Monitor Nutritional & Medical Status

41. Skin condition and/or wound status weekly or per policy
42. Acceptance & tolerance of supplement
43. Calorie, protein, fluid adequacy compared to estimated requirement
44. Ability to meet nutrient needs orally
45. Oral intake, if inadequate, consider enteral feeding consistent with individual's wishes
46. Weight status
47. Laboratory values, if available
48. Effectiveness of intervention in collaboration with interdisciplinary team & adjust, if condition changes, improves or declines
49. Consider validated tool such as PUSH to monitor progress for pressure injury healing

Appendix 5: Evaluate

50. Intact skin and/or progress toward healing
51. Improved and/or stable nutritional status
52. Intake meets estimated calorie, protein & fluid requirements
53. When goal is healing, monitor with PUSH tool
54. Document & re-assess per policy

References:

1. Cereda E and Munoz N, et al. In: Haesler E, Ed. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guidelines. 3rd ed. EPUAP/NPIAP/PPPIA, 2019: 94-114.
2. Academy Nutr Care Manual (Academy of Nutrition and Dietetics. Nutrition Care Manual. https://www.nutritioncaremanual.org. Accessed Dec 13, 2021.
3. Lee S K, Posthauer ME, Dorner B, Redovian V, Maloney M J. Pressure ulcer healing with a concentrated, fortified, collagen protein hydrolysate supplement; a randomized controlled trial. Advances in Skin & Wound Care. 2006;19(2):92-96.
4. Hays et al. Effects of Whey and Fortified Collagen Hydrolysate Protein Supplements on Nitrogen Balance and Body Composition in Older Women. Journal of the American Dietetic Association. 2009;109(6):1082-87.
5. Bergstrom N, et al. Predicting pressure ulcer risk: a multisite study of the predictive validity of the Braden Scale. Nursing Research. 1998;47(5):261-9.
6. MNA @ http://www.mna-elderly.com Accessed Jan 7, 2022.

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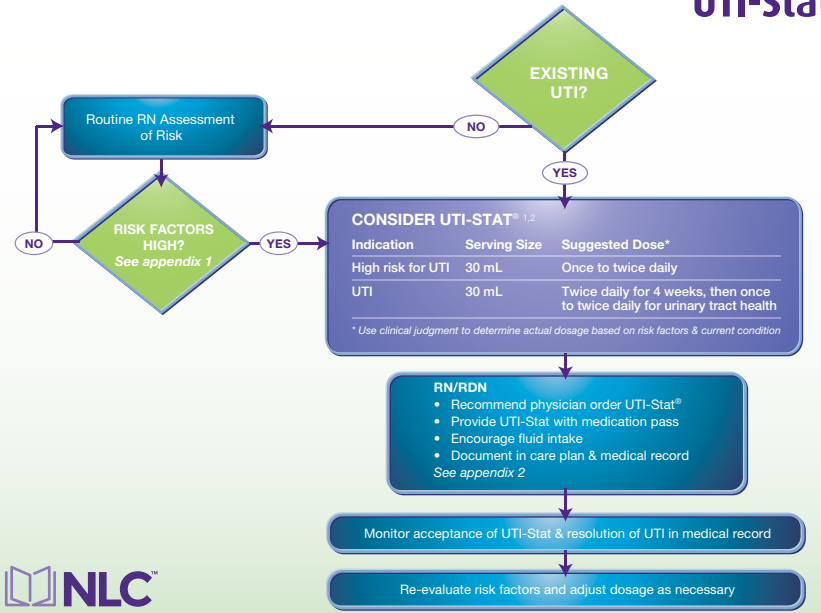
URINARY TRACT INFECTIONS (UTI)

NUTRICIA UTI-Stat®



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Appendix 1: Risk Factors

1. Poor fluid intake less than 1000 mL/day
2. Catheterization
3. Two or more UTIs in the past 6 months
4. Incontinence
5. Urinary retention
6. Immobility
7. Orders for prophylactic antibiotics

Appendix 2: UTI-Stat® Administration

8. Assess current fluid intake/type of liquids (thin or thickened)
9. Assess allergy to cranberry products
10. Recommend the physician hold or discontinue current orders for cranberry tablets, cranberry juice, cranberry containing supplements, D-Mannose, or vitamin C if taking for UTI
11. Recommend physician order UTI-Stat[1,2]
12. Communicate administration as appropriate to: nursing, dietary, physician, resident, & caregiver
13. Administer UTI-Stat PO with med pass, pour amount ordered into med cup
14. UTI-Stat can be consumed straight or mixed with any food or beverage
15. If administered via tube-feeding: flush tube with 30 mL water, measure appropriate dosage, administer into enteral tube, flush tube with additional 30 mL
16. UTI-Stat provides 70 calories & 1 g of sugar per 30 mL
17. Document intervention in care plan
18. Encourage increased consumption of fluids
19. Continue facility policies for UTI management (e.g. hygiene) (RN)
20. Monitor & document acceptance of UTI-Stat & response to the intervention in medical record (RN)

References:
1. Posthauer ME. The Director. 2008;16:13-6.
2. Efros M, et al. Urology. 2010;76:841-5.

NUTRICIA UTI-Stat®

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Reimbursement

WIC:

‡WIC is a registered service mark of the U.S. Department of Agriculture for USDA's Special Supplemental Nutrition Program for Women, Infants and Children.

WIC eligible means that a product has been approved at the Federal level and, therefore, may be included on a State agency's authorized food list if the State agency so chooses.

Each WIC State agency determines its own allowed formula list. Contact your State WIC office to determine the availability of a specific WIC eligible Nutricia product in your area – http://www.fns.usda.gov/wic.

Reimbursement Codes:

Reimbursement codes listed in this Guide have been submitted by Nutricia North America to US data warehouses based on the format established by the data warehouses. These codes are not NDC numbers.

NUTRICIA NAVIGATOR

Other Reimbursement Information:

For additional information on reimbursement of Nutricia North America's products in the United States, please contact us at (800) 365-7354, email: NutriciaNavigator@nutricia.com or visit our websites: Nutricia-NA.com/NutriciaNavigator, Neocate.com/Reimbursement, NutriciaMetabolics.com/Formula-Coverage or MyKetoCal.com/Nutricia-Navigator.

Resources

§ Dietary Reference Intakes (DRIs): Recommended Dietary Allowances and Adequate Intakes, Total Water, Macro-Nutrients, Vitamins and Elements

Food and Nutrition Board, Institute of Medicine, National Academies (1997-2005)

*** Note:** The tables (taken from the DRI reports, see www.nap.edu) present Recommended Dietary Allowances (RDAs) in **bold type** and Adequate Intakes (AIs) in ordinary type followed by an asterisk (*). RDAs and AIs may both be used as goals for individual intake. RDAs are set to meet the needs of almost all (97 to 98 percent) individuals in a group. For healthy breastfed infants, the AI is the mean intake. The AI for other life stage and gender groups is believed to cover needs of all individuals in the group, but lack of data or uncertainty in the data prevent being able to specify with confidence the percentage of individuals covered by this intake. Individual patient recommendations may vary.

[a] Total Water includes all water contained in food, beverages, and drinking water

[b] Based on g protein per kg body weight:

- 1.52 g/kg/day for infants 0-6 months
- 1.5 g/kg/day for infants 7-12 months
- 1.1 g/kg/day for 1-3
- 0.95 g/kg/day for 4-13 y
- 0.85 g/kg/day for 14-18 y
- 0.80 g/kg/day for adults
- 1.1 g/kg/day for pregnant (using pre-pregnancy weight) and lactating women

Macronutrients

Life Stage Group	Total Water[a] (L/d)	Carbohydrate (g/d)	Total Fiber (g/d)	Fat (g/d)	Linoleic Acid (g/d)	a-Linolenic Acid (g/d)	Protein (g/d)
Infants							
0-6 mo	0.7*	60*	ND	31*	4.4*	0.5*	9.1*
7-12 mo	0.8*	95*	ND	30*	4.6*	0.5*	**11.0+**
Children							
1-3 y	1.3*	**130**	19*	ND	7*	0.7*	**13**
4-8 y	1.7*	**130**	25*	ND	10*	0.9*	**19**
Males							
9-13 y	2.4*	**130**	31*	ND	12*	1.2*	**34**
14-18 y	3.3*	**130**	38*	ND	16*	1.6*	**52**
19-30 y	3.7*	**130**	38*	ND	17*	1.6*	**56**
31-50 y	3.7*	**130**	38*	ND	17*	1.6*	**56**
51-70 y	3.7*	**130**	30*	ND	14*	1.6*	**56**
> 70 y	3.7*	**130**	30*	ND	14*	1.6*	**56**
Females							
9-13 y	2.1*	**130**	26*	ND	10*	1.0*	**34**
14-18 y	2.3*	**130**	26*	ND	11*	1.1*	**46**
19-30 y	2.7*	**130**	25*	ND	12*	1.1*	**46**
31-50 y	2.7*	**130**	25*	ND	12*	1.1*	**46**
51-70 y	2.7*	**130**	21*	ND	11*	1.1*	**46**
>70 y	2.7*	**130**	21*	ND	11*	1.1*	**46**
Pregnancy							
14-18 y	3.0*	**175**	28*	ND	13*	1.4*	**71**
19-30 y	3.0*	**175**	28*	ND	13*	1.4*	**71**
31-50 y	3.0*	**175**	28*	ND	13*	1.4*	**71**
Lactation							
14-18 y	3.8*	**210**	29*	ND	13*	1.3*	**71**
19-30 y	3.8*	**210**	29*	ND	13*	1.3*	**71**
31-50 y	3.8*	**210**	29*	ND	13*	1.3*	**71**

Vitamins

Life Stage Group	Vitamin A (mcg/d)	Vitamin D (mcg/d)	Vitamin E (mg/d)	Vitamin K (mcg/d)	Thiamin (mg/d)	Riboflavin (mg/d)	Niacin (mg/d)	Vitamin B_6 (mg/d)	Folate (mcg/d)	Vitamin B_{12} (mcg/d)	Pantothenic Acid (mg/d)	Biotin (mcg/d)	Choline (mg/d)	Vitamin C (mg/d)
Infants														
0-6 mo	400*	10*	4*	2.0*	0.2*	0.3*	2*	0.1*	65*	0.4*	1.7*	5*	125*	40*
7-12 mo	500*	10*	5*	2.5*	0.3*	0.4*	4*	0.3*	80*	0.5*	1.8*	6*	150*	50*
Children														
1-3 y	**300**	**15**	**6**	30*	**0.5**	**0.5**	**6**	**0.5**	**150**	**0.9**	2*	8*	200*	**15**
4-8 y	**400**	**15**	**7**	55*	**0.6**	**0.6**	**8**	**0.6**	**200**	**1.2**	3*	12*	250*	**25**
Males														
9-13 y	**600**	**15**	**11**	60*	**0.9**	**0.9**	**12**	**1.0**	**300**	**1.8**	4*	20*	375*	**45**
14-18 y	**900**	**15**	**15**	75*	**1.2**	**1.3**	**16**	**1.3**	**400**	**2.4**	5*	25*	550*	**75**
19-30 y	**900**	**15**	**15**	120*	**1.2**	**1.3**	**16**	**1.3**	**400**	**2.4**	5*	30*	550*	**90**
31-50 y	**900**	**15**	**15**	120*	**1.2**	**1.3**	**16**	**1.3**	**400**	**2.4**	5*	30*	550*	**90**
51-70 y	**900**	**15**	**15**	120*	**1.2**	**1.3**	**16**	**1.7**	**400**	**2.4**	5*	30*	550*	**90**
> 70 y	**900**	**20**	**15**	120*	**1.2**	**1.3**	**16**	**1.7**	**400**	**2.4**	5*	30*	550*	**90**
Females														
9-13 y	**600**	**15**	**11**	60*	**0.9**	**0.9**	**12**	**1.0**	**300**	**1.8**	4*	20*	375*	**45**
14-18 y	**700**	**15**	**15**	75*	**1.0**	**1.0**	**14**	**1.2**	**400**	**2.4**	5*	25*	400*	**65**
19-30 y	**700**	**15**	**15**	90*	**1.1**	**1.1**	**14**	**1.3**	**400**	**2.4**	5*	30*	425*	**75**
31-50 y	**700**	**15**	**15**	90*	**1.1**	**1.1**	**14**	**1.3**	**400**	**2.4**	5*	30*	425*	**75**
51-70 y	**700**	**15**	**15**	90*	**1.1**	**1.1**	**14**	**1.5**	**400**	**2.4**	5*	30*	425*	**75**
> 70 y	**700**	**20**	**15**	90*	**1.1**	**1.1**	**14**	**1.5**	**400**	**2.4**	5*	30*	425*	**75**
Pregnancy														
14-18 y	**750**	**15**	**15**	75*	**1.4**	**1.4**	**18**	**1.9**	**600**	**2.6**	6*	30*	450*	**80**
19-30 y	**770**	**15**	**15**	90*	**1.4**	**1.4**	**18**	**1.9**	**600**	**2.6**	6*	30*	450*	**85**
31-50 y	**770**	**15**	**15**	90*	**1.4**	**1.4**	**18**	**1.9**	**600**	**2.6**	6*	30*	450*	**85**
Lactation														
14-18 y	**1,200**	**15**	**19**	75*	**1.4**	**1.6**	**17**	**2.0**	**500**	**2.8**	7*	35*	550*	**115**
19-30 y	**1,300**	**15**	**19**	90*	**1.4**	**1.6**	**17**	**2.0**	**500**	**2.8**	7*	35*	550*	**120**
31-50 y	**1,300**	**15**	**19**	90*	**1.4**	**1.6**	**17**	**2.0**	**500**	**2.8**	7*	35*	550*	**120**

Minerals

Life Stage Group	Calcium (mg/d)	Phosphorus (mg/d)	Magnesium (mg/d)	Fluoride (mg/d)	Selenium (mcg/d)	Chromium (mcg/d)	Copper (mcg/d)	Iodine (mcg/d)	Iron (mg/d)	Manganese (mg/d)	Molybdenum (mcg/d)	Zinc (mg/d)	Sodium (mg/d)	Potassium (mg/d)
Infants														
0-6 mo	200*	100*	30*	0.01*	15*	0.2*	200*	110*	0.27*	0.003*	2*	2*	110	400
7-12 mo	260*	275*	75*	0.5*	20*	5.5	220*	130*	11	0.6*	3*	3	370	860
Children														
1-3 y	700	460	80	0.7*	20	11*	340	90	7	1.2*	17	3	800	2000
4-8 y	1,000	500	130	1*	30	15*	440	90	10	1.5*	22	5	1000	2300
Males														
9-13 y	1,300	1,250	240	2*	40	25*	700	120	8	1.9*	34	8	1200	2500
14-18 y	1,300	1,250	410	3*	55	35*	890	150	11	2.2*	43	11	1500	3000
19-30 y	1,000	700	400	4*	55	35*	900	150	8	2.3*	45	11	1500	3400
31-50 y	1,000	700	420	4*	55	35*	900	150	8	2.3*	45	11	1500	3400
51-70 y	1,000	700	420	4*	55	30*	900	150	8	2.3*	45	11	1300	3400
> 70 y	1,200	700	420	4*	55	30*	900	150	8	2.3*	45	11	1200	3400
Females														
9-13 y	1,300	1,250	240	2*	40	21*	700	120	8	1.6*	34	8	1200	2300
14-18 y	1,300	1,250	360	3*	55	24*	890	150	15	1.6*	43	9	1500	2300
19-30 y	1,000	700	310	3*	55	25*	900	150	18	1.8*	45	8	1500	2600
31-50 y	1,000	700	320	3*	55	25*	900	150	18	1.8*	45	8	1500	2600
51-70 y	1,200	700	320	3*	55	20*	900	150	8	1.8*	45	8	1300	2600
> 70 y	1,200	700	320	3*	55	20*	900	150	8	1.8*	45	8	1200	2600
Pregnancy														
14-18 y	1,300	1,250	400	3*	60	29*	1,000	220	27	2.0+*	50	12	1500	2600
19-30 y	1,000	700	350	3*	60	30*	1,000	220	27	2.0+*	50	11	1500	2900
31-50 y	1,000	700	360	3*	60	30*	1,000	220	27	2.0+*	50	11	1500	2900
Lactation														
14-18 y	1,300	1,250	360	3*	70	44*	1,300	290	10	2.6*	50	13	1500	2500
19-30 y	1,000	700	310	3*	70	45*	1,300	290	9	2.6*	50	12	1500	2800
31-50 y	1,000	700	320	3*	70	45*	1,300	290	9	2.6*	50	12	1500	2800

Acceptable Macronutrient Distribution Ranges

	Range (percent of energy)		
Macronutrient	**Children, 1-3 y**	**Children, 4-18 y**	**Adults**
Fat	30 - 40	25 - 35	20 - 35
n-6 polyunsaturated fatty acids* (linoleic acid)	5 -10	5 -10	5 - 10
n-3 polyunsaturated fatty acids* (a-linolenic acid)	0.6 -1.2	0.6 -1.2	0.6 -1.2
Carbohydrate	45 - 65	45 - 65	45 - 65
Protein	5 - 20	10 - 30	10 - 35

* Approximately 10% of the total can come from longer-chain n-3 or n-6 fatty acids.

www.Nutricia-NA.com
- Provides an overview of Nutricia North America.

www.Pepticate.com/HCP
- Clinical evidence behind Pepticate

www.NutriciaLearningCenter.com
- A community hub and trusted, collective resource for healthcare providers managing patients with special nutritional needs.
- CE-eligible webinars by esteemed experts.
- Clinician resources, patient resources and case studies.

www.Neocate.com
- Healthcare Professional pages provide detailed product information.
- Neocate Footsteps provides families with valuable resources and support at each step of a patient's journey when diagnosed with food allergies and related conditions. Through Footsteps patients and families will have access to:
  - Assistance to gain insurance coverage for Neocate.
  - Support in adjusting to a new lifestyle at home through transition guides, allergy-friendly recipes, and informational videos.
  - Resources to adapt in social settings through helpful tips and support through social communities.
- And more!

www.Fortini.com
- Resources designed to help you guide infants failing to thrive to epic comebacks
- DRI Calculator to help you assess how nutrients in Fortini feedings meet your goals
- Medical education and other learning opportunities on key topics
- Clinical evidence behind Fortini
- Resources for parents and caregivers

www.NutriciaMetabolics.com
- Resources for the Metabolic community, including Nutricia Metabolic product details, recipes, patient educational tools and information on product coverage & support.
- Convenient online shop including a variety of low protein foods.

www.MyKetoCal.com
- Provides valuable resources and educational materials for clinicians and families.
- Locate a ketogenic diet center in North America by using the "Find a Ketogenic Center" tool.
- Helpful recipes and tools for families and dietitians using the medical ketogenic diet.

www.MyKetoCal.com/KetocalConnect
- Provides patients and caregivers the resources they need to successfully start and stay on the medical ketogenic diet. Dedicated pillars of support to provide information about KetoCal's:
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  - Coverage and cost assistance
  - Caregiver support
  - Tasty ketogenic recipes

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NOTES

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