



NUTRICIA PRODUCT REFERENCE GUIDE FOR US CLINICIANS

Updated as of April 2021

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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.



- 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.

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GI/ALLERGY

Karyn, age 7
Diagnosed with eosinophilic
esophagitis (EoE)



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



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. A medical food.

Main Features:

- Hypoallergenic
- Backed by 4 clinical trials, clinically shown to:
 - Effectively resolve food allergy symptoms when used as part of dietary management¹
 - Support growth and development¹⁻⁴
 - Target gut dysbiosis and help balance the gut microbiota in infants with food allergies³⁻⁵
- Probiotic *Bifidobacterium breve* M-16V
- HMO-like 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 H₂O
- 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
- Kosher Pareve & Halal
- Displacement: 0.71 mL/g

Indications:

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

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 38.

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*: Contact your state WIC office to determine availability.

For more reimbursement information see Resources.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal	Minerals	Per 100 g	Per 100 kcal
Calories	475	100	Calcium, mg	549	116
Protein Equivalent, g	13.5	2.8	Phosphorus, mg	388	81.7
Fat, g	23.0	4.8	Magnesium, mg	50.0	10.5
Linoleic Acid, mg	3348	705	Iron, mg	7.1	1.5
α-Linolenic Acid, mg	396	83.4	Zinc, mg	5.2	1.1
DHA, mg	77.0	16.2	Manganese, mcg	190	40.0
ARA, mg	77.0	16.2	Copper, mcg	400	84.2
Carbohydrate, g	53.5	11.3	Iodine, mcg	98.0	20.6
Soluble Fiber, g	4.5	0.95	Molybdenum, mcg	110	2.3
Vitamins			Chromium, mcg	10.4	2.2
Vitamin A, IU (mcg RE)	1352 (406)	285 (85.5)	Selenium, mcg	14.2	3.0
Vitamin D ₃ , IU (mcg)	352 (8.8)	74.1 (19)	Sodium, mg	185	38.9
Vitamin E, IU (mg α-TE)	6.5 (4.4)	1.4 (0.93)	Potassium, mg	515	108
Vitamin K, mcg	42.5	9.0	Chloride, mg	378	79.6
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			

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 D₂, Cyanocobalamin.

* A Source of Arachidonic Acid (ARA)

** A Source of Docosahexaenoic Acid (DHA)

*HMOs = human milk oligosaccharides. Neocate Syneo contains prebiotic fructooligosaccharides (FOS): 9:1 ratio of scFOS:lcFOS modeled after the molecular weight profile of HMOs in human milk^{6,7}; at 6.3 g/L, prepared, within range of prebiotics shown to mimic some of the benefits of HMOs when added to infant formula^{8,9}; and a substrate for bifidobacteria^{10,11} like HMOs in human milk^{8,9}.

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. Wopereis, et al. *Clin Transl Allergy.* 2019;9:27. 6. Kunz, et al. *Annu Rev Nutr.* 2000;20:699-722. 7. Ruhaak, et al. *Adv Nutr.* 2012;3:406s-14s. 8. Sela, et al. *Trends Microbiol.* 2010;18:298-307. 9. Bode. *Glycobiology.* 2012;22:1147-62. 10. Veereman-Wauters, et al. *J Pediatr Gastroenterol Nutr.* 2011;52:763-71. 11. Gibson, et al. *Gastroenterology.* 1995;108:975-82.

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



Neocate® Infant DHA / ARA

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

Main Features:

- Hypoallergenic
- Nucleotides added (present in breast milk)
- DHA at 0.35% fatty acids
DHA and ARA at 1:1 ratio
- Osmolality (at 0.67 kcal/mL):
340 mOsm/kg H₂O
- 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
- Kosher Pareve & Halal
- Displacement: 0.70 mL/g

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 38.*

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

WIC¹: Contact your state WIC office to determine availability. For more reimbursement information see [Resources](#).

Nutrition Information:

Nutrients	Per 100 g		Minerals	Per 100 g	
	Per 100 kcal			Per 100 kcal	
Calories	483	100	Calcium, mg	561	116
Protein Equivalent, g	13.5	2.8	Phosphorus, mg	397	82.2
Fat, g	24.5	5.1	Magnesium, mg	510	10.6
Linoleic Acid, mg	3565	738	Iron, mg	7.3	1.5
α-Linolenic Acid, mg	419	86.8	Zinc, mg	5.3	1.1
DHA, mg	81.6	16.9	Manganese, mcg	200	41.4
ARA, mg	81.6	16.9	Copper, mcg	410	84.9
Carbohydrate, g	52.0	10.8	Iodine, mcg	100	20.7
Vitamins			Molybdenum, mcg	11.3	2.3
Vitamin A, IU (mcg RE)	1352 (406)	280 (84.1)	Chromium, mcg	10.6	2.2
Vitamin D ₃ , IU (mcg)	352 (8.8)	72.9 (18)	Selenium, mcg	14.5	3.0
Vitamin E, IU (mg α.TE.)	6.8 (4.6)	1.4 (0.94)	Sodium, mg	189	39.1
Vitamin K, mcg	42.5	8.8	Potassium, mg	525	109
Thiamine, mcg	540	110	Chloride, mg	386	79.9
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			

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 D₃, 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 development¹
- 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%

Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
 - Eosinophilic Esophagitis (EoE)
 - Gastroesophageal reflux
 - 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	49735-016739	B4161	4 x 400 g (14.1 oz)	1888

WIC¹: Contact your state WIC office to determine availability. For more reimbursement information see Resources.

Nutrition Information:

Nutrients	Per Suggested Serving		Minerals	Per Suggested Serving	
	Per 100 g	(37 g Powder)		Per 100 g	(37 g Powder)
Calories	472	175	Calcium, mg	668	247
Protein Equivalent, g	8.2	3.0	Phosphorus, mg	340	126
Fat, g	18.8	7.0	Magnesium, mg	210	78
Linoleic Acid, mg	3222	1192	Iron, mg	5.9	2.2
Carbohydrate, g	67.4	24.9	Zinc, mg	4.1	1.5
Vitamins					
Vitamin A, IU (mcg RE)	649 (195)	240 (72.2)	Manganese, mcg	310	115
Vitamin D ₃ , IU (mcg)	172 (4.3)	63.6 (1.6)	Copper, mcg	310	115
Vitamin E, IU (mg α T.E.)	3.4 (2.3)	1.3 (0.84)	Iodine, mcg	41.4	15.3
Vitamin K, mcg	18.5	6.8	Molybdenum, mcg	8.8	3.3
Thiamine, mcg	250	90	Chromium, mcg	10.0	3.7
Riboflavin, mcg	250	92.5	Selenium, mcg	11.3	4.2
Vitamin B ₆ , mcg	250	92.5	Sodium, mg	38.0	14.1
Vitamin B ₁₂ , mcg	0.60	0.22	Potassium, mg	<20	<10
Niacin, mcg	1100	407	Chloride, mg	44.0	16.3
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			

Ingredients:

Corn Syrup Solids, Rice Starch, Refined Vegetable (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 D₃, Cyanocobalamin.

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



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 trial¹
- Also available with prebiotic fiber in 5 great-tasting flavors
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL): 600 mOsm/kg H₂O
- Free water (at 1 kcal/mL): 85.6%
- Energy distribution:

Protein	12.4%
Carbohydrate	42.6%
Fat (MCT 35% / LCT 65%)	45%
- Displacement: 0.69 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
 - Short bowel syndrome (SBS)
- Malabsorption

**Meets or exceeds
100% DRIs⁵ 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 38.

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: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 g		Minerals	Per 100 g	
	Per 100 g	Per 100 kcal		Per 100 g	Per 100 kcal
Calories	479	100	Calcium, mg	565	118
Protein Equivalent, g	14.8	3.1	Phosphorus, mg	382	798
Fat, g	24.0	5.0	Magnesium, mg	76.5	16.0
Linoleic Acid, mg	3912	818	Iron, mg	7.4	1.5
Carbohydrate, g	51.0	10.7	Zinc, mg	4.7	0.98
Vitamins			Manganese, mg	0.62	0.13
Vitamin A, IU (mcg RE)	956 (287)	200 (60.0)	Copper, mcg	530	111
Vitamin D ₃ , IU (mcg)	380 (9.5)	79.4 (2.0)	Iodine, mcg	85.2	17.8
Vitamin E, IU (mg α T.E.)	10.0 (6.7)	2.1 (14)	Molybdenum, mcg	215	4.5
Vitamin K, mcg	19.2	4.0	Chromium, mcg	18.0	3.8
Thiamine, mg	0.48	0.10	Selenium, mcg	192	4.0
Riboflavin, mg	0.96	0.20	Sodium, mg	239	50.0
Vitamin B ₆ , mg	0.48	0.10	Potassium, mg	653	136
Vitamin B ₁₂ , mcg	1.9	0.40	Chloride, mg	364	76.1
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			

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 D₃, Cyanocobalamin.

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



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 trial¹
- 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)

Indications:

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

Meets or exceeds 100% DRIs⁶ 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 38.

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

WIC²: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Vanilla, Strawberry, Unflavored (with prebiotics)		Chocolate		Tropical	
	Per 100 g	Per 100 kcal	Per 100 g	Per 100 kcal	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	514**	10.9	514	11.2	514	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 (95)	80.5 (2.0)	380 (95)	82.6 (2.1)	380 (95)	84.3 (2.1)
Vitamin E, IU (mg α-TE.)	10.0 (6.7)	2.1 (14)	10.0 (6.7)	2.2 (15)	10.0 (6.7)	2.2 (15)
Vitamin K, mcg	192	4.1	192	4.2	192	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 515

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 D₃, 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.

	Unflavored with prebiotics	Strawberry	Vanilla	Chocolate	Tropical
Osmolality (mOsm/kg H ₂ O) ¹	620	610	620	660	670
Free water ¹	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%

¹Standard dilution = 1 kcal/mL

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



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 and casein free
- Great-tasting Neocate Splash shown to help support adherence in one clinical trial¹
- Available in 4 great-tasting flavors: 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 H₂O):

670 (Unflavored)
740 (Grape)
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
 - Short bowel syndrome (SBS)
 - Malabsorption

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

Meets or exceeds
100% DRIs⁵ 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
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

WIC¹: Contact your state WIC office to determine availability.

For more reimbursement information see Resources.

Nutrition Information:

Nutrients	Per Carton (237 mL)	Per 100 mL	Minerals	Per Carton (237 mL)	Per 100 mL
Calories	237	100	Calcium, mg	280	118
Protein Equivalent, g	7.1	3.0	Phosphorus, mg	190	80.0
Fat, g	12.1	5.1	Magnesium, mg	37.9	16.0
Linoleic Acid, mg (Unflavored)	769 (691)	325 (292)	Iron, mg	3.6	1.5
Carbohydrate, g	24.9	10.5	Zinc, mg	2.3	0.98
Vitamins			Manganese, mg	0.31	0.13
Vitamin A, IU (mcg R.E.)	474 (142)	200 (60.0)	Copper, mcg	237	100
Vitamin D ₃ , IU (mcg)	190 (4.7)	80.0 (2.0)	Iodine, mcg	42.2	17.8
Vitamin E, IU (mg α T.E.)	5.0 (3.3)	2.1 (1.4)	Molybdenum, mcg	10.7	4.5
Vitamin K, mcg	9.5	4.0	Chromium, mcg	9.0	3.8
Thiamine, mg	0.31	0.13	Selenium, mcg	9.5	4.0
Riboflavin, mg	0.47	0.20	Sodium, mg	119	50.0
Vitamin B ₆ , mg	0.24	0.10	Potassium, mg	325	137
Vitamin B ₁₂ , mcg	0.95	0.40	Chloride, mg	180	76.0
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			

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 D₃, 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.

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.
- All formulas can be taken orally or tube fed. Not for parenteral use.
 - Neocate Nutra is a semi-solid medical food and is not for bottle or tube feeding.
 - 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.

DIRECTIONS FOR PREPARATION AND USE:

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.

Household Measures

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

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

Volume Prescription

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

Volume/day	Neocate Syneo Infant and Neocate Infant DHA/ARA											
	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
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	
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.

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)

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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	667	733	800	900	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	199	219	239	269	299	358	398	448
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	199	219	239	269	299	358	398	448
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

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

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

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

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

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

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

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

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

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

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

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

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

*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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

45 kcal/fl oz

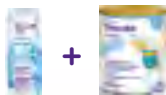
Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4.5	135	8	58.4	5.9	175
8.5	255	15	110	11.0	330
13	390	23	168	16.9	505
18	540	32	234	23.4	700
26	780	46	336	33.8	1015

*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 7.5 grams powder and provides 34.5 kcal. 1 gram provides 4.60 kcal and displaces ~0.70 mL water.

*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 Cartons	Volume of water		Approx. Final Volume*	
	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 Cartons	Volume of water		Approx. Final Volume*	
	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





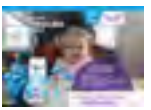

Neocate Splash Cartons	Volume of water		Approx. Final Volume*	
	fl oz	mL	fl oz	mL
1	2	60	10	297
2	4	120	20	594
3	6	180	30	891
4	7	210	39	1158
5	9	270	49	1455

27 kcal/fl oz

Neocate Splash Cartons	Volume of water		Approx. Final Volume*	
	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

Neocate Product Samples

The following products from the Neocate range are available to sample. Contact your Nutricia sales representative to request samples to be sent free of charge to your practice.

Neocate® Syneo® Infant	Neocate® Infant DHA/ARA	Neocate® Nutra	Neocate® Junior	Neocate® Splash Unflavored	Neocate® Splash (All Flavors)
					
Cans (400 g)	Cans (400 g)	Sample Packets (15 x 37 g)	Cans (400 g) OR Flavor Trial Kit – 1 packet of each of the 5 flavored Neocate Junior formulas (Each 8 fl oz, prepared)	Sample Kit – 3 cartons (3 x 8 fl oz)	Sample Kit – 1 carton of each of the 4 flavored Neocate Splash formulas (4 x 8 fl oz)

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

*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.

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



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.

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 H₂O
- 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

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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: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 Calories (100 mL)	Per Carton (4 fl oz/118 mL)	Minerals	Per 100 Calories (100 mL)	Per Carton (4 fl oz/118 mL)
Calories	100	118	Calcium, mg (mmol) [mEq]	100 (2.5) [5.0]	118 (2.9) [5.9]
Protein, g	2.6	3.0	Phosphorus, mg (mmol)	50.0 (1.6)	59.1 (1.9)
Fat, g	5.4	6.3	Magnesium, mg (mmol) [mEq]	10.7 (0.44) [0.89]	12.7 (0.52) [1.0]
Linoleic Acid, mg	790	934	Iron, mg	16	19
α-Linolenic Acid, mg	141	167	Zinc, mg	0.70	0.83
DHA, mg	17.8	21.1	Manganese, mcg	16.0	18.9
ARA, mg	17.8	21.1	Copper, mcg	65.0	76.9
Carbohydrate, g	10.1	12.0	Iodine, mcg	20.1	23.8
Soluble Fiber, g	0.57	0.67	Molybdenum, mcg	<8.0	<9.5
Water, g	85	100	Chromium, mcg	<8.0	<9.5
Vitamins			Selenium, mcg	2.9	3.4
Vitamin A, IU (mcg RE)	253 (76.0)	299 (89.7)	Sodium, mg (mmol, mEq)	37.0 (1.6)	43.8 (1.9)
Vitamin D, IU (mcg)	76.0 (1.9)	89.9 (2.2)	Potassium, mg (mmol, mEq)	95.0 (2.4)	112 (2.9)
Vitamin E, IU (mg α-TE)	3.1 (2.1)	3.7 (2.5)	Chloride, mg (mmol, mEq)	62.0 (1.7)	73.3 (2.1)
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			

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 (6½ cartons)†
12-18 months	880 mL (7½ cartons)‡

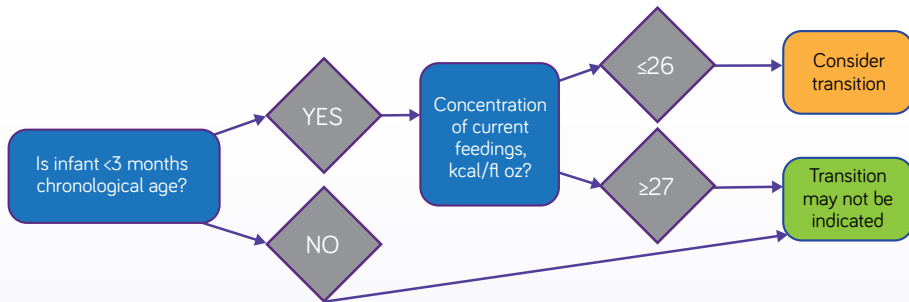
RDAs should not guide energy or protein goals in critically ill infants.

*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		

**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.

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

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	
Breast milk	Fortini Infant	22 kcal/fl oz 0.73 kcal/mL Protein +/-0.4 g/100 mL*	4 fl oz	1 fl oz	-	5 fl oz (148 mL)	110 kcal
			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
Breast milk	Fortini Infant	24 kcal/fl oz 0.80 kcal/mL Protein +/-0.7 g/100 mL*	3 fl oz	2 fl oz	½ carton	5 fl oz (148 mL)	119 kcal
			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
Breast milk	Fortini Infant	26 kcal/fl oz 0.87 kcal/mL Protein +/-1.0 g/100 mL*	2.5 fl oz	4 fl oz	1 carton	6.5 fl oz (192 mL)	168 kcal
			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
Breast milk	Fortini Infant	27 kcal/fl oz 0.90 kcal/mL Protein +/-1.1 g/100 mL*	2.5 fl oz	6 fl oz	1 ½ cartons	8.5 fl oz (251 mL)	230 kcal
			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
Breast milk	Fortini Infant	28 kcal/fl oz 0.93 kcal/mL Protein +/-1.3 g/100 mL*	1 fl oz	4 fl oz	1 carton	5 fl oz (148 mL)	138 kcal
			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 (“+XX”) 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.



Rene, age 36
Diagnosed with
phenylketonuria (PKU)

METABOLICS



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 H₂O 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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	473	350	Vitamin A, IU (mcg RE)	1305 (392)	967 (290)
Protein Equivalent, g	13.5	10.0	Vitamin D ₃ , IU (mcg)	348 (8.7)	258 (6.4)
Fat, g	23.0	17.0	Vitamin E, IU (mg α-TE)	10.9 (7.3)	8.1 (5.4)
Saturated, g	7.5	5.6	Vitamin K, mcg	38.0	28.1
Monounsaturated, g	9.4	7.0	Thiamine, mcg	500	370
Polyunsaturated, g	5.0	3.7	Riboflavin, mcg	500	370
DHA, mg	70.0	51.9	Vitamin B ₆ , mcg	500	370
ARA, mg	140	104	Vitamin B ₁₂ , mcg	12	0.89
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.0	39.3	Folic Acid, mcg	55.0	40.7
Fiber, g	5.3	3.9	Pantothenic Acid, mcg	2800	2074
GOS, g	4.7	3.5	Biotin, mcg	18.2	13.5
FOS, g	0.55	0.41	Vitamin C, mg	49.0	36.3
Amino Acids, g			Choline, mg	91.0	67.4
L-Alanine	0.62	0.46	Inositol, mg	98.0	72.6
L-Arginine	1.09	0.81	Minerals		
L-Aspartic Acid	1.02	0.76	Calcium, mg	371	275
L-Cystine	0.41	0.30	Phosphorus, mg	270	200
L-Glutamine	1.28	0.95	Magnesium, mg	52.5	38.9
Glycine	0.96	0.71	Iron, mg	7.3	5.4
L-Histidine	0.63	0.47	Zinc, mg	5.2	3.9
L-Isoleucine	0.96	0.71	Manganese, mcg	390	289
L-Leucine	1.65	1.22	Copper, mcg	390	289
L-Lysine	1.11	0.82	Iodine, mcg	82.5	61.1
L-Methionine	0.26	0.19	Molybdenum, mcg	10.9	8.1
L-Phenylalanine	Nil Added	Nil Added	Chromium, mcg	12.5	9.3
L-Proline	1.10	0.81	Selenium, mcg	14.1	10.4
L-Serine	0.72	0.53	Sodium, mg	171	127
L-Threonine	0.81	0.60	Potassium, mg	454	336
L-Tryptophan	0.31	0.23	Chloride, mg	321	238
L-Tyrosine	1.44	1.07			
L-Valine	1.05	0.78			
L-Carnitine	0.01	0.01			
Taurine	0.02	0.01			

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), Triptassium 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 D₃, 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 H₂O 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 10 g Protein Equivalent		Vitamins	Per 100 g Protein Equivalent	
	Per 100 g	Per 10 g Protein Equivalent		Per 100 g	Per 10 g Protein Equivalent
Calories (flavors)	385 (377)	138 (135)	Vitamin A, IU (mcg RE)	1399 (420)	500 (150)
Protein Equivalent, g	28	10	Vitamin D ₃ , IU (mcg)	840 (210)	300 (75)
Fat, g	12.5	4.5	Vitamin E, IU (mg α-TE)	12.5 (8.4)	4.5 (3.0)
Saturated, g	2.0	0.71	Vitamin K, mcg	14.0	5.0
Monounsaturated, g	8.2	2.9	Thiamine, mg	0.93	0.33
Polyunsaturated, g	1.8	0.64	Riboflavin, mg	0.73	0.26
DHA, mg	180	64.3	Vitamin B ₆ , mg	0.73	0.26
Carbohydrate, g (flavors)	43.2 (412)	15.4 (14.7)	Vitamin B ₁₂ , mcg	1.3	0.46
Fiber, g	11.2	4.0	Niacin, mg	2.0	0.71
Soluble	8.0	2.9	Folic Acid, mcg	210	75.0
Insoluble	3.2	1.1	Pantothenic Acid, mg	4.2	1.5
Amino Acids, g			Biotin, mcg	112	4.0
L-Alanine	4.76	1.70	Vitamin C, mg	42.0	15.0
L-Arginine	1.74	0.62	Choline, mg	224	80.0
L-Aspartic Acid	0.42	0.15	Inositol, mg	56.0	20.0
L-Cystine	1.90	0.68	Minerals		
L-Glutamine	3.36	1.20	Calcium, mg	980	350
Glycine	4.59	1.64	Phosphorus, mg	641	229
L-Histidine	0.70	0.25	Magnesium, mg	113	40.4
L-Isoleucine	1.40	0.50	Iron, mg	10.0	3.6
L-Leucine	2.24	0.80	Zinc, mg	4.9	1.8
L-Lysine	1.85	0.66	Manganese, mg	0.92	0.33
L-Methionine	0.73	0.26	Copper, mcg	560	200
L-Phenylalanine	Nil Added	Nil Added	Iodine, mcg	139	49.6
L-Proline	2.24	0.80	Molybdenum, mcg	25.5	9.1
L-Serine	1.20	0.43	Chromium, mcg	10.2	3.6
L-Threonine	2.52	0.90	Selenium, mcg	28.2	10.1
L-Tryptophan	0.42	0.15	Sodium, mg	280	100
L-Tyrosine	2.66	0.95	Potassium, mg	445	159
L-Valine	1.68	0.60	Chloride, mg	406	145
L-Carnitine	0.02	0.01			
Taurine	0.05	0.02			

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 D₃, 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 D₃, 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 35 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 H₂O):

	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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories (Orange)	385 (369)	110 (105)	Vitamin A, IU (mcg RE)	1951(586)	557 (167)
Protein Equivalent, g	35	10	Vitamin D ₃ , IU (mcg)	292 (73)	83.4 (2.1)
Fat, g	12.6	3.6	Vitamin E, IU (mg α-TE)	16.2 (10.9)	4.6 (3.1)
Saturated, g	1.4	0.40	Vitamin K, mcg	718	20.5
Monounsaturated, g	7.9	2.3	Thiamine, mg	0.80	0.23
Polyunsaturated, g	2.7	0.77	Riboflavin, mg	0.85	0.24
Linoleic Acid, mg	2064	590	Vitamin B ₆ , mg	14	0.40
α-Linolenic Acid, mg	535	153	Vitamin B ₁₂ , mcg	2.7	0.77
Carbohydrate, g (Orange)	33 (29)	9.4 (8.3)	Niacin, mg	5	14
Amino Acids, g			Folic Acid, mcg	430	123
L-Alanine	1.4	0.40	Pantothenic Acid, mg	4.3	12
L-Arginine	2.6	0.74	Biotin, mcg	214	6.1
L-Aspartic Acid	2.5	0.71	Vitamin C, mg	54.3	15.5
L-Cystine	0.96	0.27	Choline, mg	376	107
L-Glutamine	4.3	1.23	Inositol, mg	70	20
Glycine	2.5	0.71	Minerals		
L-Histidine	1.5	0.43	Calcium, mg	1035	296
L-Isoleucine	2.4	0.69	Phosphorus, mg	995	284
L-Leucine	4.0	1.14	Magnesium, mg	268	76.6
L-Lysine	3.1	0.89	Iron, mg	12.9	3.7
L-Methionine	0.64	0.18	Zinc, mg	7.9	2.3
L-Phenylalanine	Nil Added	Nil Added	Manganese, mg	16	0.46
L-Proline	2.8	0.80	Copper, mcg	720	206
L-Serine	1.8	0.51	Iodine, mcg	115	32.9
L-Threonine	1.9	0.54	Molybdenum, mcg	32.4	9.3
L-Tryptophan	0.78	0.22	Chromium, mcg	22.8	6.5
L-Tyrosine	3.5	1.00	Selenium, mcg	50.8	14.5
L-Valine	2.5	0.71	Sodium, mg	490	140
L-Carnitine	0.03	0.01	Potassium, mg	613	175
Taurine	0.12	0.03	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 D₃, 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 Phosphate, 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 D₃, 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 H₂O
Berry Crème 1030 mOsm/kg H₂O
- 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 10 g		Vitamins	Per 10 g	
	Per 250 mL	Protein Equivalent		Per 250 mL	Protein Equivalent
Calories	160	107	Vitamin A, IU (mcg RE)	833 (250)	555 (167)
Protein Equivalent, g	15	10	Vitamin D ₃ , IU (mcg)	130 (3.3)	87 (2.2)
Fat, g	5.0	3.3	Vitamin E, IU (mg α-TE)	7.0 (4.8)	4.7 (3.2)
Saturated, g	0.75	0.5	Vitamin K, mcg	30.8	20.5
Monounsaturated, g	3.0	2.0	Thiamine, mg	0.35	0.23
Polyunsaturated, g	1.0	0.67	Riboflavin, mg	0.38	0.25
Carbohydrate, g	13.8	9.2	Vitamin B ₆ , mg	0.60	0.40
Fiber, g	1.0	0.67	Vitamin B ₁₂ , mcg	12	0.80
Amino Acids, g			Niacin, mg	2.1	1.4
L-Alanine	0.68	0.45	Folic Acid, mcg	184	123
L-Arginine	128	0.85	Pantothenic Acid, mg	19	13
L-Aspartic Acid	120	0.80	Biotin, mcg	93	62
L-Cystine	0.48	0.32	Vitamin C, mg	233	15.5
L-Glutamine	Nil Added	Nil Added	Choline, mg	161	107
Glycine	123	0.82	Inositol, mg	30	20
L-Histidine	0.73	0.49	Minerals		
L-Isoleucine	113	0.75	Calcium, mg	400	267
L-Leucine	195	1.30	Phosphorus, mg	288	192
L-Lysine	150	1.00	Magnesium, mg	114	76.0
L-Methionine	0.33	0.22	Iron, mg	5.5	3.7
L-Phenylalanine	Nil Added	Nil Added	Zinc, mg	3.5	2.3
L-Proline	138	0.92	Manganese, mg	0.7	0.47
L-Serine	0.85	0.57	Copper, mcg	310	207
L-Threonine	0.95	0.63	Iodine, mcg	49.0	32.7
L-Tryptophan	0.38	0.25	Molybdenum, mcg	14.0	9.3
L-Tyrosine	1.73	1.15	Chromium, mcg	9.8	6.5
L-Valine	1.25	0.83	Selenium, mcg	21.8	14.5
L-Carnitine	0.01	0.01	Sodium, mg	210	140
Taurine	0.08	0.05	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
- 15 grams of soluble fiber per each 10 g PE serving
- Provides 30 g of protein equivalent and 12 g of fat per 100 g of powder
- Available in Vanilla and Plain (Original) flavors
- Available in pouches (both flavors) and cans (Vanilla flavor only)
- Osmolality (at 0.73 kcal/mL): 460 mOsm/kg H₂O based on dilution of 33.3 g powder (1 scoop or 1 pouch) to 5 fl oz (150 mL) water
- 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	HCPSC Code*	Product Packaging	Calories Per Can/Pouch
CANS				
114098 - Vanilla	49735-0168-32	B4157 or B4162	4 x 400 g (14.1 oz)	1584
POUCHES				
114099- Vanilla	49735-0183-04	B4157 or B4162	16 x 33.3 g (12 oz)	132
114116 - Plain (Original)	49735-0141-16	B4157 or B4162	16 x 33.3 g (12 oz)	132

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 g Protein Equivalent		Vitamins	Per 10 g Protein Equivalent	
	Per 100 g	(1 scoop/pouch)		Per 100 g	(1 scoop/pouch)
Calories	396	132	Vitamin A, IU (mcg RE)	2040(765)	680(255)
Protein Equivalent, g	30.0	10.0	Vitamin D ₃ , IU (mcg)	900(22.5)	300(7.5)
Phenylalanine, mg	46.0	15.3	Vitamin E, IU (mg α-TE)	22.8 (15.3)	7.6(5.1)
Fat, g	12.0	4.0	Vitamin K, mcg	72.0	24.0
Saturated, g	2.8	0.93	Thiamine, mg	1.4	0.47
Monounsaturated, g	6.3	2.1	Riboflavin, mg	1.8	0.60
Polyunsaturated, g	2.5	0.84	Vitamin B ₆ , mg	1.7	0.56
DHA, mg	155	516	Vitamin B ₁₂ , mcg	3.6	12
Carbohydrate, g	42.0	14.0	Niacin, mg	15.0	5.0
Fiber, g	4.5	15	Folic Acid, mcg	360	120
Amino Acids, g					
L-Alanine	1.33	0.44	Pantothenic Acid, mg	4.8	16
L-Arginine	1.42	0.47	Biotin, mcg	36.0	12.0
L-Aspartic acid	1.89	0.63	Vitamin C, mg	72.0	24.0
L-Cystine	0.93	0.31	Choline, mg	300	100
L-Glutamic acid	4.14	1.38	Inositol, mg	60.0	20.0
L-Glycine	2.24	0.75	Minerals		
L-Histidine ¹⁴⁷	0.49		Calcium, mg	1050	350
L-Isoleucine	2.27	0.76	Phosphorus, mg	945	315
L-Leucine	2.34	0.78	Magnesium, mg	252	84.0
L-Lysine	1.33	0.44	Iron, mg	13.2	4.4
L-Methionine	0.44	0.15	Zinc, mg	10.2	3.4
L-Phenylalanine	0.05	0.02	Manganese, mg	1.6	0.52
L-Proline	2.57	0.86	Copper, mcg	1200	400
L-Serine	1.63	0.54	Iodine, mcg	135	45.0
L-Threonine	3.68	1.23	Molybdenum, mcg	54.0	18.0
L-Tryptophan	0.72	0.24	Chromium, mcg	36.0	12.0
L-Tyrosine	3.69	1.23	Selenium, mcg	48.0	16.0
L-Valine	1.83	0.61	Sodium, mg	465	155
L-Carnitine	0.04	0.01	Potassium, mg	1047	349
Taurine	0.09	0.03	Chloride, mg	569	190

Ingredients:

Plain (Original): Glycomacropeptide (Milk), Corn Syrup Solids, Refined Vegetable Oils (Canola, Safflower, Coconut And Soybean), Modified Corn Starch, Dextrin, Maltodextrin, L-Tyrosine, Tricalcium Phosphate, contains 2% or less of the following: Glycine, Magnesium Phosphate, L-Leucine, L-Histidine, L-Arginine, Sugar, Potassium Chloride, L-Cystine, Choline Bitartrate, Dicalcium Phosphate, L-Tryptophan, C. *cohnii* Oil[†], Glucose Syrup Solids, Potassium Citrate, Ascorbyl Palmitate, Mixed Tocopherols, Silicon Dioxide, Rosemary Extract, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Mannitol, Vitamin E Acetate, Ferrous Sulfate, L-Carnitine, Glycerol Mono And Distearate, High Oleic Sunflower Oil, Sodium Polyphosphate, Sunflower Lecithin, Natural Flavors, Niacinamide, Zinc Oxide, Sodium Ascorbate, Vitamin D₃, Vitamin A Palmitate, Copper Gluconate, Manganese Sulfate, Calcium D-Pantothenate, D-Biotin, Beta-Carotene, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Vitamin K₁, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride, Sodium Molybdate.

Contains: Milk, Coconut Oil, Soybean Oil.

Vanilla: Glycomacropeptide (Milk), Sugar, Refined Vegetable Oils (Canola, Safflower, Coconut And Soybean), Modified Corn Starch, Dextrin, Maltodextrin, L-Tyrosine, Tricalcium Phosphate, Natural And Artificial Flavors, contains 2% or less of the following: Glycine, Magnesium Phosphate, L-Leucine, L-Histidine, L-Arginine, Potassium Chloride, L-Cystine, Choline Bitartrate, Dicalcium Phosphate, L-Tryptophan, C. *cohnii* Oil[†], Glucose Syrup Solids, Potassium Citrate, Ascorbyl Palmitate, Mixed Tocopherols, Silicon Dioxide, Rosemary Extract, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Mannitol, Vitamin E Acetate, Ferrous Sulfate, L-Carnitine, Glycerol Mono And Distearate, High Oleic Sunflower Oil, Sodium Polyphosphate, Sunflower Lecithin, Niacinamide, Zinc Oxide, Sodium Ascorbate, Vitamin D₃, Vitamin A Palmitate, Copper Gluconate, Manganese Sulfate, Calcium D-Pantothenate, D-Biotin, Beta-Carotene, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Vitamin K₁, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride, Sodium Molybdate.

Contains: Milk, Coconut Oil, Soybean Oil.

[†]A source of docosahexaenoic acid (DHA)

Contains 15.3 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 H₂O
- 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	Vitamins	Per 8.5 fl oz/ 250 mL
Calories	110	Vitamin A, IU (mcg RE)	665 (200)
Protein Equivalent, g	10	Vitamin D ₃ , IU (mcg)	250 (6.3)
Phenylalanine, mg	18	Vitamin E, IU (mg α-TE)	5.0 (3.3)
Fat, g	4.0	Vitamin K, mcg	17.5
Saturated, g	0.40	Thiamine, mg	0.40
Trans, g	0	Riboflavin, mg	0.40
Monounsaturated, g	2.4	Vitamin B ₆ , mg	0.35
Polyunsaturated, g	1.2	Vitamin B ₁₂ , mcg	0.70
DHA, mg	60.0	Niacin, mg	3.5
EPA, mg	15.0	Folic Acid, mcg	50.0
Carbohydrate, g	8.5	Pantothenic Acid, mg	13
Fiber, g	0.93	Biotin, mcg	78
Sugars, g	7.5	Vitamin C, mg	15.5
Amino Acids, g		Choline, mg	93.8
L-Alanine	0.40	Inositol, mg	20.3
L-Arginine	0.49	Minerals	
L-Aspartic acid	0.59	Calcium, mg	325
L-Cystine	0.29	Phosphorus, mg	275
L-Glutamic acid	1.3	Magnesium, mg	58.5
Glycine	0.07	Iron, mg	3.0
L-Histidine	0.40	Zinc, mg	2.2
L-Isoleucine	0.72	Manganese, mg	0.23
L-Leucine	1.5	Copper, mcg	250
L-Lysine	0.43	Iodine, mcg	36.5
L-Methionine	0.13	Molybdenum, mcg	12.5
L-Phenylalanine	0.02	Chromium, mcg	7.5
L-Proline	0.79	Selenium, mcg	12.5
L-Serine	0.51	Sodium, mg	146
L-Threonine	1.1	Potassium, mg	185
L-Tryptophan	0.24	Chloride, mg	100
L-Tyrosine	1.0		
L-Valine	0.87		
L-Carnitine	0.01		
Taurine	0.03		

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 H₂O
 - Lemonade: 530 mOsm/kg H₂O
- 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 PerPouch
160056 - Vanilla	49735-0100-56	B4162 or B4157	16 x 33.4 g (12 oz)	107
160058 - Lemonade	49735-0100-58	B4162 or B4157	16 x 33.4 g (12 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)	
		Per 100 g	Per 20 g Protein Equivalent (1 pouch)
Calories (Lemonade)	321 (295)	107 (98)	
Protein Equivalent, g	60	20	
Phenylalanine, mg	108	36	
Fat, g (Lemonade)	2.5 (0.19)	0.82 (0.06)	
Carbohydrate, g (Lemonade)	14.8 (13.4)	4.9 (4.5)	
Sugars, g (Lemonade)	9.7 (8.3)	3.2 (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	18	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	0.08	0.03	
Taurine	0.18	0.06	

Vitamins	Per 100 g	Per 20 g Protein Equivalent (1 pouch)	
		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 (270)	360 (9.0)	
Vitamin E, IU (mg α-TE)	276 (18.4)	92 (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	1311	437	
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), Sugar, L-Leucine, L-Tyrosine, L-Arginine, Magnesium Hydrogen Phosphate, L-Histidine, Refined Vegetable Oils (Canola, Safflower, Coconut, Soy), Artificial Flavors, Tricalcium Phosphate, Maltodextrin, L-Valine, L-Cystine, L-Tryptophan, Dicalcium Phosphate, Potassium Chloride, Choline Bitartrate, Modified Corn Starch, Calcium Carbonate, Potassium Citrate, Sodium Chloride, Silicon Dioxide, Taurine, L-Ascorbic Acid, L-Carnitine, Inositol, Ferrous Sulfate, Sucralose, 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 K₁, D-Biotin, Cholecalciferol, Cyanocobalamin.

Contains: Milk, Coconut Oil, Soy Oil.

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 K₁, 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
- Suitable for individuals with PKU over 1 year of age
- 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)	668
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	334	42
Protein Equivalent, g	80	10
Phenylalanine, mg	122	15.3
Fat, g	<0.5	<0.5
Carbohydrate, g	2.7	<0.5
Amino Acids, g		
L-Alanine	3.51	0.44
L-Arginine	3.76	0.47
L-Aspartic acid	5.00	0.63
L-Cystine	2.45	0.31
L-Glutamic acid	11.0	1.38
Glycine	5.93	0.75
L-Histidine	3.89	0.49
L-Isoleucine	6.01	0.76
L-Leucine	6.19	0.78
L-Lysine	3.51	0.44
L-Methionine	1.17	0.15
L-Phenylalanine	0.12	0.02
L-Proline	6.81	0.86
L-Serine	4.31	0.54
L-Threonine	9.74	1.23
L-Tryptophan	1.89	0.24
L-Tyrosine	9.75	1.23
L-Valine	4.84	0.61
L-Carnitine	0.08	0.01
Taurine	0.24	0.03

Minerals	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Calcium, mg	32.0	4.0
Phosphorus, mg	320	40.0
Potassium, mg	1160	145
Sodium, mg	960	120

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, Refined Vegetable Oils (Canola, Safflower, Coconut and Soybean Oils), Silicon Dioxide, Taurine, Modified Corn Starch, Maltodextrin, L-Carnitine, Ascorbyl Palmitate, Rosemary Extract, Mixed Tocopherols, Tricalcium Phosphate.

Contains: Milk, Coconut Oil, Soybean Oil.

Contains 15.3 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
- Available in cans and pouches
- Osmolality (at 0.65 kcal/mL): 800 mOsm/kg H₂O based on dilution of 40 g powder (1 scoop or 1 pouch) 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/Pouch
CANS				
119868 - Chocolate	00847-0950-12	B4157 or B4162	4 x 454 g (1 lb)	1784
119869 - Vanilla	00847-0950-22	B4157 or B4162	4 x 454 g (1 lb)	1784
119870 - Orange Creme	00847-0950-32	B4157 or B4162	4 x 454 g (1 lb)	1784
119871 - Strawberry	00847-0950-42	B4157 or B4162	4 x 454 g (1 lb)	1784
119879 - Unflavored	00847-0950-82	B4157 or B4162	4 x 454 g (1 lb)	1784
POUCHES				
119856 - Chocolate	00847-0950-14	B4157 or B4162	16 x 40 g (14 oz)	157
119857 - Vanilla	00847-0950-24	B4157 or B4162	16 x 40 g (14 oz)	157
119858 - Orange Creme	00847-0950-34	B4157 or B4162	16 x 40 g (14 oz)	157
119859 - Strawberry	00847-0950-44	B4157 or B4162	16 x 40 g (14 oz)	157
119861 - Unflavored	00847-0950-84	B4157 or B4162	16 x 40 g (14 oz)	157

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 g Protein Equivalent		Vitamins	Per 10 g Protein Equivalent	
	Per 100 g	(1 scoop/pouch)		Per 100 g	(1 scoop/pouch)
Calories	393	157	Vitamin A, IU (mcg RE)	1700 (637)	680 (255)
Protein Equivalent, g	25	10	(25% as beta-carotene)		
Fat, g	13	5	Vitamin D ₃ , IU (mcg)	600 (15)	240 (6)
Saturated, g	3.0	1.2	Vitamin E, IU (mg α-TE)	19 (12.7)	7.6 (5.1)
Monounsaturated, g	6.8	2.7	Vitamin K, mcg	61	24
Polysaturated, g	2.8	1.1	Thiamine, mg	1.5	0.6
Linoleic Acid, mg	1936	774	Riboflavin, mg	1.5	0.6
α-Linolenic Acid, mg	725	290	Vitamin B ₆ , mg	1.4	0.56
Carbohydrate, g	46	18	Vitamin B ₁₂ , mcg	3.0	1.2
Fiber, g	3.9	1.5	Niacin, mg	17	6.8
			Folic Acid, mcg	300	120
Amino Acids, g			Pantothenic Acid, mg	4	16
L-Alanine	2.32	0.93	Biotin, mcg	30	12
L-Arginine	1.97	0.79	Vitamin C, mg	60	24
L-Asparagine	3.49	1.40	Choline, mg	210	84
L-Cystine	0.34	0.14	Inositol, mg	50	20
L-Glutamine	3.89	1.56			
Glycine	1.52	0.61	Minerals		
L-Histidine	0.63	0.25	Calcium, mg	822	329
L-Isoleucine	1.04	0.42	Phosphorus, mg	788	315
L-Leucine	2.24	0.90	Magnesium, mg	210	84
L-Lysine	1.82	0.73	Iron, mg	11	4.4
L-Methionine	0.61	0.24	Zinc, mg	10	4
L-Phenylalanine	Nil Added	Nil Added	Manganese, mg	1.3	0.52
L-Proline	1.52	0.61	Copper, mcg	1000	400
L-Serine	2.24	0.90	Iodine, mcg	100	40
L-Threonine	1.15	0.46	Molybdenum, mcg	45	18
L-Tryptophan	0.58	0.23	Chromium, mcg	30	12
L-Tyrosine	2.69	1.08	Selenium, mcg	40	16
L-Valine	1.7	0.67	Sodium, mg	388	155
L-Carnitine	0.04	0.01	Potassium, mg	872	349
Taurine	0.08	0.03	Chloride, mg	475	190

Ingredients:

Unflavored: Corn Syrup Solids, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine. Contains 2% Or Less Of The Following: L-Arginine, Monocalcium Phosphate, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, Coconut Oil, Soybean Oil, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Magnesium Oxide, L-Cystine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon Dioxide, Tricalcium Phosphate, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Niacinamide, Calcium Phosphate, Zinc Oxide, Copper Gluconate, Vitamin K₁, Vitamin D₃, 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 B₁₂, Chromium Chloride, Sodium Molybdate.
Contains: Coconut Oil, Soybean Oil.

Chocolate: Sugar, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, Natural And Artificial Flavors. Contains 2% Or Less Of The Following: L-Arginine, Monocalcium Phosphate, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, Coconut Oil, Soybean Oil, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Magnesium Oxide, L-Cystine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon Dioxide, Tricalcium Phosphate, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, FD&C Red #40, FD&C Yellow #5, FD&C Blue #2, Niacinamide, Calcium Phosphate, Zinc Oxide, Copper Gluconate, Vitamin K₁, Vitamin D₃, 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 B₁₂, Chromium Chloride, Sodium Molybdate.
Contains: Coconut Oil, Soybean Oil.

Vanilla: Sugar, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Asparagine Monohydrate, L-Glutamine, Natural And Artificial Flavors, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine. Contains 2% Or Less Of The Following: L-Arginine, Monocalcium Phosphate, Corn Syrup Solids, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, Coconut Oil, Soybean Oil, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Magnesium Oxide, L-Cystine, Thiamine Dioxide, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon Dioxide, Tricalcium Phosphate, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Niacinamide, Calcium Phosphate, Zinc Oxide, Copper Gluconate, Vitamin K₁, Vitamin D₃, 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 B₁₂, Chromium Chloride, Sodium Molybdate.
Contains: Coconut Oil, Soybean Oil.

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



PhenylAde® 40 Drink Mix

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in individuals over 3 years of age.

Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- Provides 40 g of protein equivalent (PE) and 2 g of fat per 100 g of powder
- Only 0.5 gram of fat and 83 calories per 10 g PE pouch
- Available in Unflavored and Citrus flavor
- Osmolality (at 0.63 kcal/mL): 1110 mOsm/kg H₂O based on dilution of 25 g powder (1 pouch) to 4 fl oz (120 mL) water
- Displacement: 0.48 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
119863 - Unflavored	00847-0954-04	B4157 or B4162	20 x 25 g (0.88 oz)	83
119866 - Citrus	00847-0954-14	B4157 or B4162	20 x 25 g (0.88 oz)	83

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 pouch)	Vitamins	
			Per 100 g	Per 10 g Protein Equivalent (1 pouch)
Calories	330	83	Vitamin A, IU (mcg RE)	1557 (584) 389 (146)
Protein Equivalent, g	40	10	(25% as beta-carotene)	
Fat, g	2	0.5	Vitamin D ₃ , IU (mcg)	347 (8.7) 87 (2.2)
Saturated, g	0.48	0.12	Vitamin E, IU (mg α-TE)	15.4 (10.3) 3.9 (2.6)
Monounsaturated, g	1.1	0.28	Vitamin K, mcg	60 15
Polysaturated, g	0.40	0.10	Thiamine, mg	14 0.35
Carbohydrate, g	38	10	Riboflavin, mg	1.3 0.32
Amino Acids, g			Vitamin B ₆ , mg	1.5 0.38
L-Alanine	3.85	0.96	Vitamin B ₁₂ , mcg	2.8 0.7
L-Arginine	3.27	0.82	Niacin, mg	16.4 4.1
L-Asparagine	5.04	1.26	Folic Acid, mcg	468 117
L-Cystine	0.55	0.14	Pantothenic Acid, mg	5.8 1.5
L-Glutamine	6.34	1.59	Biotin, mcg	35 8.8
Glycine	2.47	0.62	Vitamin C, mg	75 18.9
L-Histidine	1.02	0.26	Choline, mg	284 71
L-Isoleucine	1.64	0.41	Inositol, mg	86 22
L-Leucine	3.64	0.91	Minerals	
L-Lysine	2.98	0.75	Calcium, mg	894 224
L-Methionine	1.08	0.27	Phosphorus, mg	809 202
L-Phenylalanine	Nil Added	Nil Added	Magnesium, mg	209 52
L-Proline	2.47	0.62	Iron, mg	12 3
L-Serine	4.08	1.02	Zinc, mg	8 2
L-Threonine	1.92	0.48	Manganese, mg	1.8 0.45
L-Tryptophan	0.61	0.15	Copper, mcg	869 217
L-Tyrosine	3.78	0.95	Iodine, mcg	133 33
L-Valine	2.74	0.69	Molybdenum, mcg	40 10
L-Carnitine	0.06	0.01	Chromium, mcg	27 6.7
Taurine	0.12	0.03	Selenium, mcg	56 13.9
			Sodium, mg	424 106
			Potassium, mg	776 194
			Chloride, mg	1322 331

Ingredients:

Citrus: Corn Syrup Solids, Sugar, L-Glutamine, L-Asparagine Monohydrate, L-Serine, L-Alanine, L-Tyrosine, L-Lysine Monohydrochloride, L-Leucine, L-Arginine, L-Valine, Citric Acid, Tricalcium Phosphate, Glycine, L-Proline, Natural Flavor. Contains 2% or less of the following: L-Threonine, L-Isoleucine, Magnesium Phosphate, L-Methionine, Sodium Citrate, L-Histidine, Dipotassium Phosphate, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Choline Bitartrate, Potassium Chloride, L-Tryptophan, L-Cystine, Sodium Chloride, Coconut Oil, Soybean Oil, Taurine, Silicon Dioxide, Inositol, Ascorbic Acid, L-Carnitine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Ferric Orthophosphate, Vitamin E Acetate, Zinc Sulfate, Niacinamide, Sucralose, Calcium D-Pantothenate, Vitamin K₁, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D₃, Beta-Carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, FD&C Yellow #5, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride, Sodium Molybdate.

Contains: Coconut Oil, Soybean Oil.

Unflavored: Corn Syrup Solids, Sugar, L-Glutamine, L-Asparagine Monohydrate, L-Serine, L-Alanine, L-Tyrosine, L-Lysine Monohydrochloride, L-Leucine, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Proline. Contains 2% or less of the following: L-Threonine, L-Isoleucine, Magnesium Phosphate, L-Methionine, Sodium Citrate, L-Histidine, Dipotassium Phosphate, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Choline Bitartrate, Potassium Chloride, L-Tryptophan, L-Cystine, Sodium Chloride, Coconut Oil, Soybean Oil, Taurine, Silicon Dioxide, Inositol, Ascorbic Acid, L-Carnitine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Ferric Orthophosphate, Vitamin E Acetate, Zinc Sulfate, Niacinamide, Sucralose, Calcium D-Pantothenate, Vitamin K₁, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D₃, Beta-Carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride, Sodium Molybdate.

Contains: Coconut Oil, Soybean Oil.



PhenylAde® 60 Drink Mix

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in individuals over 3 years of age.

Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- Only 49 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
- Available in cans and pouches
- Osmolality (at 0.49 kcal/mL): 1256 mOsm/kg H₂O based on dilution of 16.7 g powder (1 scoop or 1 pouch) 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/Pouch
CANS				
119852 - Unflavored	00847-0956-02	B4157 or B4162	4 x 454 g (1 lb)	1335
119853 - Vanilla	00847-0956-22	B4157 or B4162	4 x 454 g (1 lb)	1335
POUCHES				
119876 - Unflavored	00847-0956-04	B4157 or B4162	30 x 16.7 g (0.59 oz)	49
119854 - Vanilla	00847-0956-24	B4157 or B4162	30 x 16.7 g (0.59 oz)	49

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 g Protein Equivalent (1 scoop/pouch)		Vitamins	Per 10 g Protein Equivalent (1scoop/pouch)	
	Per 100 g	Per 100 g		Per 100 g	Per 100 g
Calories	294	49	Vitamin A, IU (mcg RE) (25% as beta-carotene)	2331 (874)	389 (146)
Protein Equivalent, g	60	10	Vitamin D ₃ , IU (mcg)	520 (13)	87 (2.2)
Fat, g	1.0	0.17	Vitamin E, IU (mg α-TE)	23 (15.4)	3.8 (2.6)
Saturated, g	0.5	0.1	Vitamin K, mcg	90	15
Monounsaturated, g	<0.5	<0.1	Thiamine, mg	2.1	0.35
Polyunsaturated, g	<0.5	<0.1	Riboflavin, mg	1.9	0.32
Carbohydrate, g	11	2	Vitamin B ₆ , mg	2.3	0.38
Amino Acids, g			Vitamin B ₁₂ , mcg	4.2	0.7
L-Alanine	5.56	0.93	Niacin, mg	25	4.1
L-Arginine	4.72	0.79	Folic Acid, mcg	700	117
L-Asparagine	8.36	1.39	Pantothenic Acid, mg	8.7	1.5
L-Cystine	0.81	0.13	Biotin, mcg	53	8.8
L-Glutamine	9.31	1.55	Vitamin C, mg	113	19
Glycine	3.63	0.61	Choline, mg	425	71
L-Histidine	1.51	0.25	Inositol, mg	129	22
L-Isoleucine	2.49	0.42	Minerals		
L-Leucine	5.37	0.90	Calcium, mg	1300	217
L-Lysine	4.36	0.73	Phosphorus, mg	1194	199
L-Methionine	1.45	0.24	Magnesium, mg	310	52
L-Phenylalanine	Nil Added	Nil Added	Iron, mg	18	3
L-Proline	3.63	0.61	Zinc, mg	12	2
L-Serine	5.37	0.90	Manganese, mg	2.7	0.45
L-Threonine	2.76	0.46	Copper, mcg	1300	217
L-Tryptophan	1.38	0.23	Iodine, mcg	180	30
L-Tyrosine	6.45	1.08	Molybdenum, mcg	60	10
L-Valine	4.01	0.67	Chromium, mcg	40	6.7
L-Carnitine	0.09	0.01	Selenium, mcg	83	14
Taurine	0.18	0.03	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, L-Threonine, Corn Syrup Solids, 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, Modified Corn Starch, Taurine, Canola Oil, Maltodextrin, Safflower Oil, Ascorbic Acid, Inositol, L-Carnitine, Ferric Orthophosphate, Vitamin E Acetate, Coconut Oil, Soybean Oil, Zinc Sulfate, Niacinamide, Sucralose, Calcium D-Pantothenate, Vitamin K₁, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D₃, Beta-Carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride, Sodium Molybdate.

Contains: Soy, Coconut Oil.

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 K₁, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D₃, Beta-Carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B₁₂, 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				
119864	00847-0950-04	B4155	30 x 12.4 g (0.44 oz)	40
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 10 g Protein Equivalent	
	Per 100 g	(1 scoop/pouch)
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 10 g Protein Equivalent	
	Per 100 g	(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 phenylalanine-free medical food containing the remaining essential amino acids (large neutral amino acids and lysine) for the dietary management of phenylketonuria (PKU) in individuals over 12 years of age.

Main Features:

- Phenylalanine free
- 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.



XPhe 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
- Available in cans and pouches
- Osmolality (mOsm/kg H₂O):

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
CANS				
49851 - Orange	49735-0183-24	B4162 or B4157	6 x 454 g (1 lb)	1385
49850 - Unflavored	49735-0183-23	B4162 or B4157	6 x 454 g (1 lb)	1385
POUCHES				
49458 - Orange	49735-0123-02	B4162 or B4157	30 x 50 g (1.8 oz)	153
49459 - Unflavored	49735-0123-01	B4162 or B4157	30 x 50 g (1.8 oz)	153

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 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	305	76	Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Protein Equivalent, g	40	10	Vitamin D ₃ , IU (mcg)	332 (8.3)	83 (2.1)
Fat, g	<1.0	<0.25	Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82	20.5
Amino Acids, g			Thiamine, mg	0.91	0.23
L-Alanine	16	0.40	Riboflavin, mg	0.97	0.24
L-Arginine	3.0	0.75	Vitamin B ₆ , mg	1.6	0.40
L-Aspartic Acid	2.8	0.70	Vitamin B ₁₂ , mcg	3.1	0.78
L-Cystine	1.1	0.28	Niacin, mg	5.7	1.4
L-Glutamine	4.9	1.23	Folic Acid, mcg	491	123
Glycine	2.8	0.70	Pantothenic Acid, mg	4.9	1.2
L-Histidine	1.7	0.43	Biotin, mcg	245	6.1
L-Isoleucine	2.7	0.68	Vitamin C, mg	62	15.5
L-Leucine	4.6	1.15	Choline, mg	430	108
L-Lysine	3.5	0.88	Inositol, mg	80	20
L-Methionine	0.73	0.18	Minerals		
L-Phenylalanine	Nil Added	Nil Added	Calcium, mg	1183	296
L-Proline	3.2	0.80	Phosphorus, mg	1137	284
L-Serine	2.0	0.50	Magnesium, mg	306	76.5
L-Threonine	2.2	0.55	Iron, mg	14.7	3.7
L-Tryptophan	0.89	0.22	Zinc, mg	9.0	2.3
L-Tyrosine	4.0	1.00	Manganese, mg	1.8	0.45
L-Valine	2.9	0.73	Copper, mcg	820	205
L-Carnitine	0.04	0.01	Iodine, mcg	131	32.8
Taurine	0.14	0.04	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, L-Valine, Glycine, L-Isoleucine, L-Threonine, Tripotassium Citrate, Magnesium Hydrogen Phosphate, and contains 2% or less of each of the following: 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, Phyloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin, Citric Acid, and 2% or less of each of the following: Artificial Flavor, Acesulfame Potassium, Beta Carotene (For Color), Beet Juice Concentrate (For Color).

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, and contains 2% or less of each of the following: 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, Phyloquinone, D-Biotin, Vitamin D₃, 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 H₂O

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	Vitamins	Per Pouch (125 mL)	Per 10 g Protein Equivalent
	Calories	120		60	Vitamin A, IU (mcg RE)
Protein Equivalent, g	20	10	Vitamin D ₃ , IU (mcg)	320 (8.0)	160 (4.0)
Fat, g	0.44	0.22	Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
DHA, mg	150	75	Vitamin K, mcg	24.9	12.5
Carbohydrate, g	9.3	4.7	Thiamine, mg	0.54	0.27
Fiber, g	0.50	0.25	Riboflavin, mg	0.50	0.25
Amino Acids, g			Vitamin B ₆ , mg	0.58	0.29
L-Alanine	116	0.58	Vitamin B ₁₂ , mcg	1.8	0.90
L-Arginine	2.00	1.00	Niacin, mg	7.1	3.6
L-Aspartic Acid	175	0.88	Folic Acid, mcg	120	60.0
L-Cystine	0.51	0.26	Pantothenic Acid, mg	1.8	0.90
Glycine	1.88	0.94	Biotin, mcg	53.4	26.7
L-Histidine	0.79	0.40	Vitamin C, mg	17.8	8.9
L-Isoleucine	1.24	0.62	Choline, mg	15.3	7.65
L-Leucine	2.13	1.07	Inositol, mg	40.6	20.3
L-Lysine	1.63	0.82	Minerals		
L-Methionine	0.34	0.17	Calcium, mg	319	160
L-Phenylalanine	Trace*	Trace*	Phosphorus, mg	244	122
L-Proline	2.00	1.00	Magnesium, mg	96.3	48.2
L-Serine	1.09	0.55	Iron, mg	5.1	2.6
L-Threonine	1.04	0.52	Zinc, mg	3.8	1.9
L-Tryptophan	0.41	0.21	Manganese, mg	0.56	0.28
L-Tyrosine	1.88	0.94	Copper, mcg	56.3	28.2
L-Valine	1.38	0.69	Iodine, mcg	56.3	28.2
L-Carnitine	0.01	0.01	Molybdenum, mcg	25.0	12.5
Taurine	0.10	0.05	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 D₃, 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 D₃, 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 D₃, 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 H₂O):

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 pouch (14.3 g)		Vitamins	Per pouch (14.3 g)	
	Per 100 g			Per 100 g	
Calories	286	41	Vitamin A, IU (mcg RE)	3896 (1170)	557 (167)
Protein Equivalent, g	70	10	Vitamin D ₃ , IU (mcg)	580 (14.5)	82.9 (2.1)
Fat, g	0.2	0.03	Vitamin E, IU (mg α-TE)	32 (215)	4.6 (3.1)
Carbohydrate, g	1.0	0.14	Vitamin K, mcg	143	20.4
Amino Acids, g			Thiamine, mg	16	0.23
L-Alanine	3.3	0.47	Riboflavin, mg	17	0.24
L-Arginine	5.8	0.83	Vitamin B ₆ , mg	2.8	0.4
L-Aspartic Acid	5.4	0.77	Vitamin B ₁₂ , mcg	5.5	0.79
L-Cystine	2.2	0.31	Niacin, mg	10	1.4
Glycine	5.1	0.73	Folic Acid, mcg	860	123
L-Histidine	3.3	0.47	Pantothenic Acid, mg	8.6	1.2
L-Isoleucine	5.1	0.73	Biotin, mcg	43	6.1
L-Leucine	8.7	1.24	Vitamin C, mg	110	15.7
L-Lysine	5.9	0.84	Choline, mg	720	103
L-Methionine	1.4	0.20	Inositol, mg	140	20
L-Phenylalanine	Nil Added	Nil Added	Minerals		
L-Proline	6.2	0.89	Calcium, mg	2070	296
L-Serine	3.8	0.54	Phosphorus, mg	1990	285
L-Threonine	4.3	0.61	Magnesium, mg	535	76.5
L-Tryptophan	1.7	0.24	Iron, mg	25.7	3.7
L-Tyrosine	7.8	1.12	Zinc, mg	15.8	2.3
L-Valine	5.6	0.80	Manganese, mg	3.1	0.44
L-Carnitine	0.06	0.01	Copper, mcg	1430	204
Taurine	0.11	0.02	Iodine, mcg	229	32.7
L-Glutamine	3.95	0.56	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 D₃, 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 D₃, 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 H₂O):

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	49735-0114-67	B4157 or B4162	30 x 20 g (0.7 oz)	69
49257	49735-0119-10	B4157 or B4162	30 x 20 g (0.7 oz)	69
Tropical Surprise				

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, Acesulfame Potassium, 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 H₂O 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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	473	350	Vitamin A, IU (mcg RE)	1305(392)	967(290)
Protein Equivalent,g	13.5	10.0	Vitamin D ₃ , IU (mcg)	348(8.7)	258(6.4)
Fat, g	23.0	17.0	Vitamin E, IU (mg α-TE)	10.9 (73)	8.1 (5.4)
Saturated, g	7.5	5.6	Vitamin K, mcg	38.0	28.1
Monounsaturated, g	9.4	7.0	Thiamine, mcg	500	370
Polyunsaturated, g	5.0	3.7	Riboflavin, mcg	500	370
DHA, mg	70.0	51.9	Vitamin B ₆ , mcg	500	370
ARA, mg	140	104	Vitamin B ₁₂ , mcg	12	0.89
Linoleic Acid,mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.0	39.3	Folic Acid, mcg	55.0	40.7
Fiber, g	5.3	3.9	Pantothenic Acid, mcg	2800	2074
GOS, g	4.7	3.5	Biotin, mcg	182	13.5
FOS, g	0.55	0.41	Vitamin C, mg	49.0	36.3
Amino Acids, g			Choline, mg	91.0	67.4
L-Alanine	0.82	0.61	Inositol, mg	98.0	72.6
L-Arginine	1.40	1.04	Minerals		
L-Aspartic Acid	1.20	0.89	Calcium, mg	371	275
L-Cystine	0.52	0.39	Phosphorus, mg	270	200
L-Glutamic Acid	1.60	1.19	Magnesium, mg	52.5	38.9
L-Glutamine	0.13	0.10	Iron, mg	7.3	5.4
Glycine	1.29	0.96	Zinc, mg	5.2	3.9
L-Histidine	0.80	0.59	Manganese, mcg	390	289
L-Isoleucine	Nil Added	Nil Added	Copper, mcg	390	289
L-Leucine	Nil Added	Nil Added	Iodine, mcg	82.5	61.1
L-Lysine	1.45	1.07	Molybdenum, mcg	10.9	8.1
L-Methionine	0.34	0.25	Chromium, mcg	12.5	9.3
L-Phenylalanine	0.94	0.70	Selenium, mcg	14.1	10.4
L-Proline	1.56	1.16	Sodium, mg	171	127
L-Serine	0.96	0.71	Potassium, mg	454	336
L-Threonine	1.05	0.78	Chloride, mg	321	238
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			

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 D₃, 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® Junior

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

Main Features:

- Valine, leucine, and isoleucine free
- Amino acid profile specifically designed for MSUD; clinically researched in two studies¹
- Includes DHA & ARA
- Essential vitamins and minerals to help meet needs of young children with MSUD
- Mild neutral flavor
- Provides 13 g of protein equivalent per 100 g of powder
- Displacement: 0.7 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
120911	00847-0591-02	B4157 or B4162	4 x 400 g (14.1 oz)	1976

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 100 kcal	Vitamins	Per 100 g	Per 100 kcal
Calories	494	100	Vitamin A, IU (mcg RE)	1187(356)	240(72)
Protein Equivalent, g	13	2.6	Vitamin D ₃ , IU (mcg)	429(10.7)	87(2.2)
Fat, g	29	6	Vitamin E, IU (mg α-TE)	138(9.2)	28(1.9)
Saturated, g	10.2	2.1	Vitamin K, mcg	62	12.6
Monounsaturated, g	13.4	2.7	Thiamine, mg	11	0.22
Polyunsaturated, g	5.0	1.0	Riboflavin, mg	0.81	0.16
DHA, mg	88	17.9	Vitamin B ₆ , mg	0.78	0.16
ARA, mg	88	17.9	Vitamin B ₁₂ , mcg	2	0.4
Linoleic Acid, mg	3730	755	Niacin, mg	5.8	1.2
Carbohydrate, g	46	9	Folic Acid, mcg	140	28
Amino Acids, g			Pantothenic Acid, mg	3.4	0.69
L-Alanine	140	0.28	Biotin, mcg	36	7.2
L-Arginine	0.66	0.13	Vitamin C, mg	78	15.8
L-Asparagine	0.75	0.15	Choline, mg	244	49
L-Cystine	0.29	0.06	Inositol, mg	148	30
L-Glutamic Acid	0.45	0.09	Minerals		
L-Glutamine	3.71	0.75	Calcium, mg	596	121
Glycine	0.35	0.07	Phosphorus, mg	444	90
L-Histidine	0.92	0.19	Magnesium, mg	68	13.8
L-Isoleucine	Nil Added	Nil Added	Iron, mg	14.7	3
L-Leucine	Nil Added	Nil Added	Zinc, mg	29	5.8
L-Lysine	1.17	0.24	Manganese, mg	0.44	0.09
L-Methionine	0.38	0.08	Copper, mcg	952	193
L-Phenylalanine	1.14	0.23	Iodine, mcg	96	19.4
L-Proline	0.76	0.16	Molybdenum, mcg	15.8	3.2
L-Serine	0.58	0.12	Chromium, mcg	16.2	3.3
L-Threonine	0.94	0.19	Selenium, mcg	44	8.9
L-Tryptophan	0.69	0.14	Sodium, mg	303	61
L-Tyrosine	1.14	0.23	Potassium, mg	797	161
L-Valine	Nil Added	Nil Added	L-Carnitine Chloride, mg	384	78
L-Carnitine	0.03	0.01			
Taurine	0.07	0.01			

Ingredients:

Corn Syrup Solids, Maltodextrin, Modified Corn Starch, Canola Oil, Safflower Oil, Coconut Oil, L-Glutamine, Soybean Oil. Contains 2% or less of the following: Tricalcium Phosphate, L-Lysine Acetate, L-Alanine, L-Phenylalanine, L-Tyrosine, Sodium Citrate, Dipotassium Phosphate, L-Threonine, L-Histidine, L-Asparagine Monohydrate, L-Proline, L-Tryptophan, Choline Bitartrate, L-Arginine, Ascorbyl Palmitate, Mixed Tocopherols, Magnesium Chloride, Rosemary Extract, L-Serine, Potassium Citrate, Potassium Chloride, L-Glutamic Acid, L-Methionine, Glycine, Silicon Dioxide, L-Cystine, *C.ohnii* Oil,* Glucose Syrup Solids, Mono- and Diglycerides, *M. alpina* Oil,** Inositol, Ascorbic Acid, Zinc Sulfate, Taurine, Ferrous Sulfate, High Oleic Sunflower Oil, Mannitol, L-Carnitine, Vitamin E Acetate, Glycerol, Mono- and Distearate, Natural Flavor, Sodium Polyphosphate, Sunflower Lecithin, Sodium Ascorbate, Vitamin K₁, Nicotinamide, Vitamin A Palmitate, Vitamin D₃, Calcium D-Pantothenate, D-Biotin, Copper Sulfate, Manganese Sulfate, Thiamine Hydrochloride, Potassium Iodide, Pyridoxine Hydrochloride, Sodium Selenite, Riboflavin, Vitamin B₁₂, Folic Acid, Chromium Chloride, Sodium Molybdate.

Contains: **Coconut Oil, Soybean Oil**

* A source of Docosahexaenoic Acid (DHA)

** A source of Arachidonic Acid (ARA)

¹ Strauss KA et al. Mol Genet Metab. 2010;99:333-45 and Strauss KA, et al. Mol Genet Metab. 2020;129:193-206.



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 H₂O 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)	1725

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 g Protein Equivalent (1 scoop)		Vitamins	Per 10 g Protein Equivalent (1 scoop)	
	Per 100 g	Per 10 g Protein Equivalent (1 scoop)		Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	380	152	Vitamin A, IU (mcg RE) (25% as beta-carotene)	1700 (637)	680 (255)
Protein Equivalent, g	25	10	Vitamin D ₃ , IU (mcg)	600 (150)	240 (60)
Fat, g	12	5	Vitamin E, IU (mg α-TE)	184 (123)	73 (4.9)
Saturated, g	2.8	1.1	Vitamin K, mcg	50	20
Monounsaturated, g	6.3	2.5	Thiamine, mg	15	0.60
Polyunsaturated, g	2.7	1.1	Riboflavin, mg	15	0.60
Linoleic Acid, mg	1733	693	Vitamin B ₆ , mg	13	0.52
α-Linolenic Acid, mg	662	265	Vitamin B ₁₂ , mcg	2.0	0.80
Carbohydrate, g	47	19	Niacin, mg	12	4.8
Fiber, g	3.9	1.5	Folic Acid, mcg	250	100
Amino Acids, g			Pantothenic Acid, mg	5.5	2.2
L-Alanine	2.70	1.08	Biotin, mcg	30	12
L-Arginine	1.28	0.51	Vitamin C, mg	60	24
L-Asparagine	1.45	0.58	Choline, mg	100	40
L-Cystine	0.56	0.22	Inositol, mg	40	16
L-Glutamic Acid	0.86	0.35	Minerals		
L-Glutamine	7.17	2.87	Calcium, mg	886	355
Glycine	0.67	0.27	Phosphorus, mg	864	346
L-Histidine	1.79	0.71	Magnesium, mg	200	80
L-Isoleucine	Nil Added	Nil Added	Iron, mg	13	5.2
L-Leucine	Nil Added	Nil Added	Zinc, mg	12	4.8
L-Lysine	2.27	0.91	Manganese, mg	15	0.60
L-Methionine	0.74	0.30	Copper, mcg	1000	400
L-Phenylalanine	2.20	0.88	Iodine, mcg	120	48
L-Proline	1.48	0.59	Molybdenum, mcg	75	30
L-Serine	1.12	0.45	Chromium, mcg	40	16.1
L-Threonine	1.81	0.72	Selenium, mcg	100	40
L-Tryptophan	1.33	0.53	Sodium, mg	600	240
L-Tyrosine	2.20	0.88	Potassium, mg	1301	520
L-Valine	Nil Added	Nil Added	Chloride, mg	860	344
L-Carnitine	0.06	0.02			
Taurine	0.14	0.06			

Ingredients:

Sugar, L-Glutamine, Modified Food Starch, Dextrin, Canola Oil, Maltodextrin, Safflower Oil, L-Lysine Acetate, L-Alanine, Natural and Artificial Flavors, Tricalcium Phosphate, Potassium Citrate, L-Phenylalanine, L-Tyrosine. Contains 2% or less of the following: L-Threonine, L-Histidine, L-Asparagine Monohydrate, Magnesium Phosphate, Sodium Chloride, L-Proline, Dipotassium Phosphate, L-Tryptophan, L-Arginine, L-Serine, Coconut Oil, Soybean Oil, L-Glutamic Acid, L-Methionine, Glycine, L-Cystine, Flaxseed Oil, Titanium Dioxide, Choline Bitartrate, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Sodium Citrate, Taurine, Ascorbic Acid, L-Carnitine, Ferrous Sulfate, Inositol, Vitamin E Acetate, Zinc Sulfate, Calcium Phosphate, Niacinamide, Copper Gluconate, Calcium D-Pantothenate, Vitamin D₃, Vitamin A Palmitate, Vitamin K₁, 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 B₁₂.

Contains: Coconut Oil, Soybean Oil.

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



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.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)	Per 10 g Protein Equivalent (1 scoop)	
			Amino Acids, g	Per 100 g
Calories	323	40	L-Alanine	8.72
Protein Equivalent, g	81	10	L-Arginine	4.13
Fat, g	0	0	L-Asparagine	4.67
Carbohydrate, g	0	0	L-Cystine	1.80
			L-Glutamic Acid	2.79
			L-Glutamine	23.12
			Glycine	2.16
			L-Histidine	5.76
			L-Isoleucine	Nil Added
			L-Leucine	Nil Added
			L-Lysine	7.32
			L-Methionine	2.38
			L-Phenylalanine	7.08
			L-Proline	4.76
			L-Serine	3.60
			L-Threonine	5.83
			L-Tryptophan	4.28
			L-Tyrosine	7.08
			L-Valine	Nil Added
			L-Carnitine	0.19
			Taurine	0.46

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.

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



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 H₂O):
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
49815	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 10 g		Vitamins	Per 100 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	305	76	Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Protein Equivalent, g	40	10	Vitamin D ₃ , IU (mcg)	332 (8.3)	83 (2.1)
Fat, g	<1.0	<0.25	Vitamin E, IU (mg α-TE)	183 (12.3)	4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82	20.5
Amino Acids, g			Thiamine, mg	0.91	0.23
L-Alanine	2.4	0.60	Riboflavin, mg	0.97	0.24
L-Arginine	41	103	Vitamin B ₆ , mg	1.6	0.40
L-Aspartic Acid	3.4	0.85	Vitamin B ₁₂ , mcg	3.1	0.78
L-Cystine	1.6	0.40	Niacin, mg	5.7	1.4
L-Glutamic Acid	4.6	1.15	Folic Acid, mcg	491	123
L-Glutamine	0.32	0.08	Pantothenic Acid, mg	4.9	1.2
Glycine	3.7	0.93	Biotin, mcg	24.5	6.1
L-Histidine	2.3	0.58	Vitamin C, mg	62	15.5
L-Isoleucine	Nil Added	Nil Added	Choline, mg	430	108
L-Leucine	Nil Added	Nil Added	Inositol, mg	80	20
L-Lysine	4.2	1.05	Minerals		
L-Methionine	0.99	0.25	Calcium, mg	1183	296
L-Phenylalanine	2.8	0.70	Phosphorus, mg	1137	284
L-Proline	4.5	1.13	Magnesium, mg	306	76.5
L-Serine	2.8	0.70	Iron, mg	14.7	3.7
L-Threonine	3.1	0.78	Zinc, mg	9.0	2.3
L-Tryptophan	1.3	0.33	Manganese, mg	1.8	0.45
L-Tyrosine	2.8	0.70	Copper, mcg	820	205
L-Valine	Nil Added	Nil Added	Iodine, mcg	131	32.8
L-Carnitine	0.04	0.01	Molybdenum, mcg	37	9.3
Taurine	0.14	0.04	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, Beta Carotene (For Color), Beet Juice Concentrate (For Color), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, 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
- Based on fruit juices (from concentrate) with natural flavor - 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 H₂O

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.

Nutrition Information:

Nutrients	Per Pouch	Per 10 g	Vitamins	Per Pouch	Per 10 g
	(4.2 fl oz)	Protein Equivalent		(4.2 fl oz)	Protein Equivalent
Calories	120	60	Vitamin A, IU (mcg RE)	949(285)	475(143)
Protein Equivalent, g	20	10	Vitamin D ₃ , IU (mcg)	320(8.0)	160(4.0)
Fat, g	0.44	0.22	Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
DHA, mg	150	75	Vitamin K, mcg	24.9	12.5
Carbohydrate, g	9.3	4.7	Thiamine, mg	0.54	0.27
Fiber, g	0.50	0.25	Riboflavin, mg	0.50	0.25
Amino Acids, g			Vitamin B ₆ , mg	0.58	0.29
L-Alanine	140	0.70	Vitamin B ₁₂ , mcg	18	0.90
L-Arginine	190	0.95	Niacin, mg	7.1	3.6
L-Aspartic Acid	145	0.73	Folic Acid, mcg	120	60.0
L-Cystine	120	0.60	Pantothenic Acid, mg	18	0.9
Glycine	190	0.95	Biotin, mcg	53.4	26.7
L-Histidine	100	0.50	Vitamin C, mg	17.8	8.9
L-Isoleucine	Trace*	Trace*	Choline, mg	153	76.5
L-Leucine	Trace*	Trace*	Inositol, mg	406	20.3
L-Lysine	1.78	0.89	Minerals		
L-Methionine	0.43	0.22	Calcium, mg	319	160
L-Phenylalanine	1.18	0.59	Phosphorus, mg	244	122
L-Proline	2.38	1.19	Magnesium, mg	96.3	48.2
L-Serine	1.65	0.83	Iron, mg	5.1	2.6
L-Threonine	1.30	0.65	Zinc, mg	3.8	1.9
L-Tryptophan	0.53	0.27	Manganese, mg	0.56	0.28
L-Tyrosine	2.00	1.00	Copper, mcg	563	282
L-Valine	Trace*	Trace*	Iodine, mcg	56.3	28.2
L-Carnitine	0.01	0.01	Molybdenum, mcg	25.0	12.5
Taurine	0.06	0.03	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.ohnii* 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 D₃, Cyanocobalamin.

**A Source of Docosahexaenoic Acid (DHA).

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



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 H₂O 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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	473	350	Vitamin A, IU (mcg RE)	1305(392)	967(290)
Protein Equivalent,g	13.5	10.0	Vitamin D ₃ , IU (mcg)	348(8.7)	258(6.4)
Fat, g	23.0	17.0	Vitamin E, IU (mg α-TE)	109(7.3)	81(5.4)
Saturated, g	7.5	5.6	Vitamin K, mcg	38.0	28.1
Monounsaturated, g	9.4	7.0	Thiamine, mcg	500	370
Polyunsaturated, g	5.0	3.7	Riboflavin, mcg	500	370
DHA, mg	70.0	519	Vitamin B ₆ , mcg	500	370
ARA, mg	140	104	Vitamin B ₁₂ , mcg	12	0.89
Linoleic Acid,mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.0	39.3	Folic Acid, mcg	55.0	40.7
Fiber, g	5.3	3.9	Pantothenic Acid, mcg	2800	2074
GOS, g	4.7	3.5	Biotin, mcg	18.2	13.5
FOS, g	0.55	0.41	Vitamin C, mg	49.0	36.3
Amino Acids, g			Choline, mg	91.0	67.4
L-Alanine	0.74	0.55	Inositol, mg	98.0	72.6
L-Arginine	1.21	0.90	Minerals		
L-Aspartic Acid	1.02	0.76	Calcium, mg	371	275
L-Cystine	0.44	0.33	Phosphorus, mg	270	200
L-Glutamic Acid	1.35	1.00	Magnesium, mg	52.5	38.9
L-Glutamine	0.11	0.08	Iron, mg	7.3	5.4
Glycine	2.18	1.61	Zinc, mg	5.2	3.9
L-Histidine	0.70	0.52	Manganese, mcg	390	289
L-Isoleucine	0.42	0.31	Copper, mcg	390	289
L-Leucine	Nil Added	Nil Added	Iodine, mcg	82.5	61.1
L-Lysine	1.06	0.79	Molybdenum, mcg	10.9	8.1
L-Methionine	0.30	0.22	Chromium, mcg	12.5	9.3
L-Phenylalanine	0.82	0.61	Selenium, mcg	14.1	10.4
L-Proline	2.19	1.62	Sodium, mg	171	127
L-Serine	0.68	0.50	Potassium, mg	454	336
L-Threonine	0.72	0.53	Chloride, mg	321	238
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			

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 D₃, 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 H₂O 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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	377	135	Vitamin A, IU (mcg RE)	1748 (525)	628 (189)
Protein Equivalent, g	28	10	Vitamin D ₃ , IU (mcg)	1052 (26.3)	379 (9.4)
Fat, g	12.5	4.5	Vitamin E, IU (mg α-TE)	15.6 (10.5)	5.6 (3.8)
Saturated, g	2.0	0.71	Vitamin K, mcg	175	6.3
Monounsaturated, g	8.2	2.9	Thiamine, mg	0.91	0.33
Polyunsaturated, g	1.8	0.64	Riboflavin, mg	0.91	0.33
DHA, mg	180	64.3	Vitamin B ₆ , mg	0.91	0.33
Carbohydrate, g	412	14.7	Vitamin B ₁₂ , mcg	1.6	0.57
Fiber, g	11.2	4.0	Niacin, mg	2.5	0.90
Soluble, g	8.0	2.9	Folic Acid, mcg	263	93.9
Insoluble, g	3.2	1.1	Pantothenic Acid, mg	5.3	1.9
Amino Acids, g			Biotin, mcg	14.0	5.0
L-Alanine	1.35	0.48	Vitamin C, mg	52.5	18.8
L-Arginine	2.35	0.84	Choline, mg	280	100
L-Aspartic Acid	2.00	0.71	Inositol, mg	70.0	25.0
L-Cystine	0.94	0.34	Minerals		
L-Glutamic acid	1.88	0.67	Calcium, mg	1225	438
L-Glutamine	3.16	1.13	Phosphorus, mg	801	286
Glycine	4.60	1.64	Magnesium, mg	140	50.0
L-Histidine	1.40	0.50	Iron, mg	12.5	4.5
L-Isoleucine	0.92	0.33	Zinc, mg	6.1	2.2
L-Leucine	Nil Added	Nil Added	Manganese, mg	1.2	0.43
L-Lysine	2.20	0.79	Copper, mcg	700	250
L-Methionine	0.64	0.23	Iodine, mcg	174	62.1
L-Phenylalanine	1.70	0.61	Molybdenum, mcg	31.9	11.4
L-Proline	4.10	1.46	Chromium, mcg	12.8	4.6
L-Serine	1.45	0.52	Selenium, mcg	35.3	12.6
L-Threonine	1.50	0.54	Sodium, mg	350	125
L-Tryptophan	0.58	0.21	Potassium, mg	556	199
L-Tyrosine	1.70	0.61	Chloride, mg	508	181
L-Valine	1.04	0.37			
L-Carnitine	0.02	0.01			
Taurine	0.06	0.02			

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 D₃, Phylloquinone, D-Biotin, Cyanocobalamin.

Contains: Coconut Oil, Soy.

*A source of Docosahexaenoic Acid (DHA)



XLeu 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 H₂O):
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
49816	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	Vitamins	
			Per 100 g	Per 10 g Protein Equivalent
Calories	305	76	Vitamin A, IU (mcg RE)	2228 (669) 557 (167)
Protein Equivalent, g	40	10	Vitamin D ₃ , IU (mcg)	332 (8.3) 83 (2.1)
Fat, g	<10	<0.25	Vitamin E, IU (mg α-TE)	18.3 (12.3) 4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82 20.5
Amino Acids, g			Thiamine, mg	0.91 0.23
L-Alanine	2.2	0.55	Riboflavin, mg	0.97 0.24
L-Arginine	3.6	0.90	Vitamin B ₆ , mg	1.6 0.40
L-Aspartic Acid	3.0	0.75	Vitamin B ₁₂ , mcg	3.1 0.78
L-Cystine	1.3	0.33	Niacin, mg	5.7 1.4
L-Glutamic Acid	3.9	0.98	Folic Acid, mcg	491 123
Glycine	6.3	1.58	Pantothenic Acid, mg	4.9 1.2
L-Histidine	2.1	0.53	Biotin, mcg	24.5 6.1
L-Isoleucine	12	0.30	Vitamin C, mg	62 15.5
L-Leucine	Nil Added	Nil Added	Choline, mg	430 108
L-Lysine	3.0	0.75	Inositol, mg	80 20
L-Methionine	0.86	0.22	Minerals	
L-Phenylalanine	2.3	0.58	Calcium, mg	1183 296
L-Proline	6.3	1.58	Phosphorus, mg	1137 284
L-Serine	1.9	0.48	Magnesium, mg	306 76.5
L-Threonine	2.1	0.53	Iron, mg	14.7 3.7
L-Tryptophan	0.79	0.20	Zinc, mg	9.0 2.3
L-Tyrosine	2.3	0.58	Manganese, mg	1.8 0.45
L-Valine	1.4	0.35	Copper, mcg	820 205
L-Carnitine	0.04	0.01	Iodine, mcg	131 32.8
Taurine	0.14	0.04	Molybdenum, mcg	37 9.3
L-Glutamine	0.32	0.08	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, Beta Carotene (For Color), Beet Juice Concentrate (For Color), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, 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 H₂O 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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	473	350	Vitamin A, IU (mcg RE)	1305 (392)	967 (290)
Protein Equivalent, g	13.5	10.0	Vitamin D ₃ , IU (mcg)	348 (8.7)	258 (6.4)
Fat, g	23.0	17.0	Vitamin E, IU (mg α-TE)	10.9 (7.3)	81 (5.4)
Saturated, g	7.5	5.6	Vitamin K, mcg	38.0	28.1
Monounsaturated, g	9.4	7.0	Thiamine, mcg	500	370
Polyunsaturated, g	5.0	3.7	Riboflavin, mcg	500	370
DHA, mg	70.0	51.9	Vitamin B ₆ , mcg	500	370
ARA, mg	140	104	Vitamin B ₁₂ , mcg	12	0.89
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.0	39.3	Folic Acid, mcg	55.0	40.7
Fiber, g	5.3	3.9	Pantothenic Acid, mcg	2800	2074
GOS, g	4.7	3.5	Biotin, mcg	18.2	13.5
FOS, g	0.55	0.41	Vitamin C, mg	490	36.3
Amino Acids, g			Choline, mg	91.0	67.4
L-Alanine	0.68	0.50	Inositol, mg	98.0	72.6
L-Arginine	1.18	0.87	Minerals		
L-Aspartic Acid	0.98	0.73	Calcium, mg	371	275
L-Cystine	0.45	0.33	Phosphorus, mg	270	200
L-Glutamic Acid	1.33	0.99	Magnesium, mg	52.5	38.9
L-Glutamine	0.11	0.08	Iron, mg	7.3	5.4
Glycine	1.06	0.79	Zinc, mg	5.2	3.9
L-Histidine	0.68	0.50	Manganese, mcg	390	289
L-Isoleucine	1.06	0.79	Copper, mcg	390	289
L-Leucine	1.81	1.34	Iodine, mcg	82.5	61.1
L-Lysine	Nil Added	Nil Added	Molybdenum, mcg	10.9	8.1
L-Methionine	0.29	0.21	Chromium, mcg	12.5	9.3
L-Phenylalanine	0.80	0.59	Selenium, mcg	14.1	10.4
L-Proline	1.29	0.96	Sodium, mg	171	127
L-Serine	0.80	0.59	Potassium, mg	454	336
L-Threonine	0.89	0.66	Chloride, mg	321	238
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			

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (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 D₃, 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® Junior

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

Main Features:

- Lysine free
- Amino acid profile specifically designed for GA-1; clinically researched in one study†
- Contains arginine and 60 mg of tryptophan per 100 g of powder
- Contains a source of Omega-3 fatty acids
- Complete with vitamins and minerals
- Available in Plain flavor
- Provides 10 g of protein equivalent per 100 g of powder
- Displacement: 0.6 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
120904	00847-0751-02	B4157 or B4162	4 x 400 g (14.1 oz)	1640

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 100 kcal	Vitamins	Per 100 g	Per 100 kcal
Calories	410	100	Vitamin A, IU (mcg RE)	1373 (412)	335 (101)
Protein Equivalent, g	10	2.5	Vitamin D ₃ , IU (mcg)	525 (13.1)	128 (3.2)
Fat, g	10	2.5	Vitamin E, IU (mg α-TE)	8.5 (5.7)	2.1 (1.4)
Saturated, g	2.2	0.55	Vitamin K, mcg	34	8.3
Monounsaturated, g	5.2	1.3	Thiamine, mg	0.83	0.2
Polyunsaturated, g	2.6	0.63	Riboflavin, mg	0.69	0.17
Linoleic Acid, mg	1487	363	Vitamin B ₆ , mg	0.66	0.16
α-Linolenic Acid, mg	815	199	Vitamin B ₁₂ , mcg	1.4	0.35
Carbohydrate, g	69	17	Niacin, mg	6.6	1.6
Amino Acids, g			Folic Acid, mcg	150	37
L-Alanine	0.48	0.12	Pantothenic Acid, mg	6	1.5
L-Arginine	1.08	0.26	Biotin, mcg	31	7.6
L-Asparagine	0.72	0.18	Vitamin C, mg	56	13.6
L-Cystine	0.18	0.04	Choline, mg	213	52
L-Glutamic Acid	0.36	0.09	Inositol, mg	125	30
L-Glutamine	1.80	0.44	Minerals		
Glycine	0.24	0.06	Calcium, mg	460	112
L-Histidine	0.36	0.09	Ferrous Sulfate, Calcium Phosphate,	400	97
L-Isoleucine	0.84	0.21	Magnesium, mg	60	14.6
L-Leucine	1.38	0.34	Iron, mg	8	2
L-Lysine	Nil Added	Nil Added	Zinc, mg	7	1.6
L-Methionine	0.41	0.10	Manganese, mg	0.43	0.1
L-Ornithine	0.24	0.06	Copper, mcg	500	122
L-Phenylalanine	0.64	0.16	Iodine, mcg	90	22
L-Proline	0.60	0.15	Molybdenum, mcg	18	4.4
L-Serine	0.24	0.06	Chromium, mcg	12	2.9
L-Threonine	0.64	0.16	Selenium, mcg	40	9.7
L-Tryptophan	0.06	0.01	Sodium, mg	221	54
L-Tyrosine	0.72	0.18	Potassium, mg	589	144
L-Valine	0.96	0.23	Chloride, mg	332	81
L-Carnitine	0.03	0.01			
Taurine	0.06	0.01			

Ingredients:

Corn Syrup Solids, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Natural and Artificial Flavors. Contains 2% or less of the following: L-Glutamine, L-Leucine, Tricalcium Phosphate, L-Arginine, L-Valine, Coconut Oil, Soybean Oil, L-Isoleucine, L-Asparagine Monohydrate, Dipotassium Phosphate, Flaxseed Oil, L-Tyrosine, L-Phenylalanine, L-Threonine, L-Proline, Choline Bitartrate, Potassium Chloride, L-Ornithine-Alpha Ketoglutarate, L-Alanine, Magnesium Phosphate, L-Methionine, L-Glutamic Acid, L-Histidine, Glycine, L-Serine, Ascorbyl Palmitate, Sodium Citrate, Mixed Tocopherols, Rosemary Extract, L-Cystine, Sodium Chloride, Inositol, Silicon Dioxide, Ascorbic Acid, L-Tryptophan, Taurine, Ferrous Sulfate, Calcium Phosphate, L-Carnitine, Zinc Sulfate, Vitamin E Acetate, Niacinamide, Calcium D-Pantothenate, Mono- and Diglycerides, Vitamin A Palmitate, Vitamin D₃, Copper Gluconate, Vitamin K₁, D-Biotin, Manganese Sulfate, Sodium Selenite, Thiamine Mononitrate, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Chromium Chloride, Folic Acid, Vitamin B₁₂, Sodium Molybdate.

Contains: Coconut Oil, Soybean Oil.

† Strauss KA, et al. Mol Genet Metab. 2011;104:93-106.



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 one study[†]
- 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 H₂O 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	HCPSC Code*	Product Packaging	Calories Per Can
120462	00847-0754-22	B4157 or B4162	4 x 454 g (1 lb)	1748

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 g Protein Equivalent		Vitamins	Per 10 g Protein Equivalent	
	Per 100 g	(1 scoop)		Per 100 g	(1 scoop)
Calories	385	154	Vitamin A, IU (mcg RE)	1700(637)	680(255)
Protein Equivalent, g	25	10	(25% as beta-carotene)		
Fat, g	13	5	Vitamin D ₃ , IU (mcg)	600(15)	240(6)
Saturated, g	3.1	1.2	Vitamin E, IU (mg α-TE)	191 (12.8)	76 (5.1)
Monounsaturated, g	6.9	2.8	Vitamin K, mcg	70	28
Polyunsaturated, g	2.9	1.2	Thiamine, mg	1.5	0.6
Linoleic Acid, mg	1936	774	Riboflavin, mg	1.5	0.6
α-Linolenic Acid, mg	730	292	Vitamin B ₆ , mg	1.4	0.56
Carbohydrate, g	45	18	Vitamin B ₁₂ , mcg	3	1.2
Fiber, g	3.9	1.5	Niacin, mg	15.5	6.2
Amino Acids, g			Folic Acid, mcg	300	120
L-Alanine	120	0.48	Pantothenic Acid, mg	7.5	3
L-Arginine	2.7	1.08	Biotin, mcg	30	12
L-Asparagine	1.8	0.72	Vitamin C, mg	60	24
L-Cystine	0.45	0.18	Choline, mg	313	125
L-Glutamic Acid	0.9	0.36	Inositol, mg	50	20
L-Glutamine	4.51	1.8	Minerals:		
Glycine	0.6	0.24	Calcium, mg	1257	503
L-Histidine	0.9	0.36	Phosphorus, mg	787	315
L-Isoleucine	2.1	0.84	Magnesium, mg	201	80
L-Leucine	3.46	1.38	Iron, mg	11.3	4.5
L-Lysine	Nil Added	Nil Added	Zinc, mg	10	4
L-Methionine	1.02	0.41	Manganese, mg	1.9	0.76
L-Ornithine	0.6	0.24	Copper, mcg	1000	400
L-Phenylalanine	1.59	0.64	Iodine, mcg	115	46
L-Proline	1.5	0.6	Molybdenum, mcg	31	12.4
L-Serine	0.6	0.24	Chromium, mcg	21	8.6
L-Threonine	1.59	0.64	Selenium, mcg	63	25
L-Tryptophan	0.15	0.06	Sodium, mg	384	154
L-Tyrosine	1.8	0.72	Potassium, mg	874	350
L-Valine	2.4	0.96	Chloride, mg	475	190
L-Carnitine	0.04	0.01			
Taurine	0.15	0.06			

Ingredients:

Sugar, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Glutamine, L-Leucine, Natural and Artificial Flavors, L-Arginine, Dicalcium Phosphate, L-Valine, L-Isoleucine, L-Asparagine Monohydrate. Contains 2% or less of the following: L-Tyrosine, Tricalcium Phosphate, L-Phenylalanine, L-Threonine, L-Proline, Potassium Citrate, L-Ornithine-Alpha Ketoglutarate, L-Alanine, Coconut Oil, Soybean Oil, L-Methionine, Sodium Citrate, Potassium Chloride, L-Glutamic Acid, L-Histidine, Choline Bitartrate, Glycine, L-Serine, L-Cystine, Flaxseed Oil, Magnesium Oxide, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon Dioxide, L-Tryptophan, Taurine, Sodium Chloride, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Niacinamide, Calcium Phosphate, Zinc Oxide, Sucralose, Calcium D-Pantothenate, Copper Gluconate, Vitamin K₁, Vitamin D₃, Manganese Sulfate, Vitamin A Palmitate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Thiamine Mononitrate, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride, Sodium Molybdate.

Contains: Coconut Oil, Soybean Oil.

[†] Strauss KA, et al. Mol Genet Metab. 2011;104:93-106.



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 one study[†]
- Contains arginine and 480 mg of tryptophan per 100 g of powder
- Does not contain fat, carbohydrates, vitamins and 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 10 g Protein Equivalent (1 scoop)		Amino Acids, g	Per 10 g Protein Equivalent (1 scoop)	
	Per 100 g	Per 100 g		Per 100 g	Per 100 g
Calories	324	40	L-Alanine	3.86	0.48
Protein Equivalent, g	81	10	L-Arginine	8.69	1.07
Fat, g	0	0	L-Asparagine	5.79	0.71
Carbohydrate, g	0	0	L-Cystine	1.45	0.18
Sodium, mg	355	44	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.



HCU Anamix® Early Years

A methionine-free powdered infant formula with iron, for the dietary management of vitamin B₆ 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 H₂O 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 B₆ 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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	473	350	Vitamin A, IU (mcg RE)	1305 (392)	967 (290)
Protein Equivalent, g	13.5	10.0	Vitamin D ₃ , IU (mcg)	348 (8.7)	258 (6.4)
Fat, g	23.0	17.0	Vitamin E, IU (mg α-TE)	109 (7.3)	81 (5.4)
Saturated, g	7.5	5.6	Vitamin K, mcg	38.0	28.1
Monounsaturated, g	9.4	7.0	Thiamine, mcg	500	370
Polyunsaturated, g	5.0	3.7	Riboflavin, mcg	500	370
DHA, mg	70.0	51.9	Vitamin B ₆ , mcg	500	370
ARA, mg	140	104	Vitamin B ₁₂ , mcg	12	0.89
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.0	39.3	Folic Acid, mcg	55.0	40.7
Fiber, g	5.3	3.9	Pantothenic Acid, mcg	2800	2074
GOS, g	4.7	3.5	Biotin, mcg	182	135
FOS, g	0.55	0.41	Vitamin C, mg	490	363
Amino Acids, g			Choline, mg	910	674
L-Alanine	0.64	0.47	Inositol, mg	98.0	72.6
L-Arginine	1.09	0.81	Minerals		
L-Aspartic Acid	0.93	0.69	Calcium, mg	371	275
L-Cystine	0.41	0.30	Phosphorus, mg	270	200
L-Glutamic Acid	1.22	0.90	Magnesium, mg	52.5	38.9
L-Glutamine	0.11	0.08	Iron, mg	7.3	5.4
Glycine	0.99	0.73	Zinc, mg	5.2	3.9
L-Histidine	0.62	0.46	Manganese, mcg	390	289
L-Isoleucine	0.98	0.73	Copper, mcg	390	289
L-Leucine	1.67	1.24	Iodine, mcg	82.5	61.1
L-Lysine	1.14	0.84	Molybdenum, mcg	10.9	8.1
L-Methionine	Nil Added	Nil Added	Chromium, mcg	12.5	9.3
L-Phenylalanine	0.74	0.55	Selenium, mcg	14.1	10.4
L-Proline	1.18	0.87	Sodium, mg	171	127
L-Serine	0.73	0.54	Potassium, mg	454	336
L-Threonine	0.82	0.61	Chloride, mg	321	238
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			

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 D₃, 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 H₂O 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 B₆ 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 10 g Protein Equivalent		Vitamins	Per 10 g Protein Equivalent	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	385	138	Vitamin A, IU (mcg RE)	1399(420)	500(150)
Protein Equivalent, g	28	10	Vitamin D ₃ , IU (mcg)	840(21.0)	300(7.5)
Fat, g	12.5	4.5	Vitamin E, IU (mg α-TE)	12.5 (8.4)	4.5 (3.0)
Saturated, g	2.0	0.71	Vitamin K, mcg	14.0	5.0
Monounsaturated, g	8.2	2.9	Thiamine, mg	0.73	0.26
Polyunsaturated, g	18	0.64	Riboflavin, mg	0.73	0.26
DHA, mg	180	64.3	Vitamin B ₆ , mg	0.73	0.26
Carbohydrate, g	43.2	15.4	Vitamin B ₁₂ , mcg	1.3	0.46
Fiber, g	11.2	4.0	Niacin, mg	2.0	0.71
Soluble, g	8.0	2.9	Folic Acid, mcg	210	75
Insoluble, g	3.2	1.1	Pantothenic Acid, mg	4.2	1.5
Amino Acids, g			Biotin, mcg	11.2	4.0
L-Alanine	140	0.50	Vitamin C, mg	42	15
L-Arginine	2.25	0.80	Choline, mg	224	80
L-Aspartic Acid	2.00	0.71	Inositol, mg	56	20
L-Cystine	150	0.54	Minerals		
L-Glutamine	2.60	0.93	Calcium, mg	980	350
Glycine	2.13	0.76	Phosphorus, mg	641	229
L-Histidine	1.22	0.44	Magnesium, mg	113	40.4
L-Isoleucine	2.10	0.75	Iron, mg	10	3.6
L-Leucine	3.46	1.24	Zinc, mg	4.9	1.8
L-Lysine	2.44	0.87	Manganese, mg	0.92	0.33
L-Methionine	Nil Added	Nil Added	Copper, mcg	560	200
L-Phenylalanine	150	0.54	Iodine, mcg	139	49.6
L-Proline	2.52	0.90	Molybdenum, mcg	25.5	9.1
L-Serine	1.57	0.56	Chromium, mcg	10.2	3.6
L-Threonine	2.00	0.71	Selenium, mcg	28.2	10.1
L-Tryptophan	0.50	0.18	Sodium, mg	280	100
L-Tyrosine	1.60	0.57	Potassium, mg	445	159
L-Valine	2.30	0.82	Chloride, mg	406	145
L-Carnitine	0.02	0.01			
Taurine	0.05	0.02			

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, Nicotinamide, 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 D₃, Phylloquinone, D-Biotin, Cyanocobalamin.

Contains: **Coconut Oil, Soy.**

* A source of Docosahexaenoic Acid (DHA)



XMet Maxamum®

A methionine-free powdered medical food for the dietary management of vitamin B₆ 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 H₂O):
Dilution
1 to 7 800
1 to 5 1190
- Displacement: 0.6 mL/g

Indications:

- Vitamin B₆ 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
49821	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 10 g Protein Equivalent		Vitamins	Per 10 g Protein Equivalent	
	Per 100 g	Per 10 g Protein Equivalent		Per 100 g	Per 10 g Protein Equivalent
Calories	305	76	Vitamin A, IU (mcg RE)	2228(669)	557(167)
Protein Equivalent, g	40	10	Vitamin D ₃ , IU (mcg)	332(8.3)	83(2.1)
Fat, g	<1.0	<0.25	Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Carbohydrate, g	34.0	8.5	Vitamin K, mcg	82	20.5
Amino Acids, g			Thiamine, mg	0.91	0.23
L-Alanine	18	0.45	Riboflavin, mg	0.97	0.24
L-Arginine	3.2	0.80	Vitamin B ₆ , mg	1.6	0.40
L-Aspartic Acid	2.7	0.68	Vitamin B ₁₂ , mcg	3.1	0.78
L-Cystine	12	0.30	Niacin, mg	5.7	1.4
L-Glutamic Acid	3.6	0.90	Folic Acid, mcg	491	123
L-Glutamine	0.32	0.08	Pantothenic Acid, mg	4.9	1.2
Glycine	2.8	0.70	Biotin, mcg	24.5	6.1
L-Histidine	1.8	0.45	Vitamin C, mg	62	15.5
L-Isoleucine	2.8	0.70	Choline, mg	430	108
L-Leucine	4.9	1.23	Inositol, mg	80	20
L-Lysine	3.3	0.83	Minerals		
L-Methionine	Nil Added	Nil Added	Calcium, mg	1183	296
L-Phenylalanine	2.2	0.55	Phosphorus, mg	1137	284
L-Proline	3.4	0.85	Magnesium, mg	306	76.5
L-Serine	2.1	0.53	Iron, mg	14.7	3.7
L-Threonine	2.4	0.60	Zinc, mg	9.0	2.3
L-Tryptophan	0.95	0.24	Manganese, mg	1.8	0.45
L-Tyrosine	2.2	0.55	Copper, mcg	820	205
L-Valine	3.1	0.78	Iodine, mcg	131	32.8
L-Carnitine	0.04	0.01	Molybdenum, mcg	37	9.3
Taurine	0.14	0.04	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, Beta Carotene (For Color), Beet Juice Concentrate (For Color), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, 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
- Based on fruit juices (from concentrate) with natural flavor - 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 H₂O

Indications:

- Vitamin B₆ 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.

Nutrition Information:

Nutrients	Per Pouch	Per 10 g	Vitamins	Per Pouch	Per 10 g
	(4.2 fl oz)	Protein Equivalent		(4.2 fl oz)	Protein Equivalent
Calories	120	60	Vitamin A, IU (mcg RE)	949(285)	475(143)
Protein Equivalent, g	20	10	Vitamin D ₃ , IU (mcg)	320(8.0)	160(4.0)
Fat, g	0.44	0.22	Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
DHA, mg	150	75	Vitamin K, mcg	24.9	12.5
Carbohydrate, g	9.3	4.7	Thiamine, mg	0.54	0.27
Fiber, g	0.50	0.25	Riboflavin, mg	0.50	0.25
Amino Acids, g			Vitamin B ₆ , mg	0.58	0.29
L-Alanine	118	0.59	Vitamin B ₁₂ , mcg	1.8	0.90
L-Arginine	150	0.75	Niacin, mg	7.1	3.6
L-Aspartic Acid	173	0.87	Folic Acid, mcg	120	60.0
L-Cystine	0.98	0.49	Pantothenic Acid, mg	1.8	0.9
Glycine	160	0.80	Biotin, mcg	53.4	26.7
L-Histidine	0.85	0.43	Vitamin C, mg	17.8	8.9
L-Isoleucine	1.35	0.68	Choline, mg	153	76.5
L-Leucine	2.30	1.15	Inositol, mg	40.6	20.3
L-Lysine	1.55	0.78	Minerals		
L-Methionine	Trace*	Trace*	Calcium, mg	319	160
L-Phenylalanine	1.00	0.50	Phosphorus, mg	244	122
L-Proline	2.03	1.02	Magnesium, mg	96.3	48.2
L-Serine	1.38	0.69	Iron, mg	5.1	2.6
L-Threonine	1.13	0.57	Zinc, mg	3.8	1.9
L-Tryptophan	0.45	0.23	Manganese, mg	0.56	0.28
L-Tyrosine	1.65	0.83	Copper, mcg	56.3	28.2
L-Valine	1.45	0.73	Iodine, mcg	56.3	28.2
L-Carnitine	0.01	0.01	Molybdenum, mcg	25.0	12.5
Taurine	0.06	0.03	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 D₃, Cyanocobalamin.

**A Source of Docosahexaenoic Acid (DHA).

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



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 H₂O 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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	473	350	Vitamin A, IU (mcg RE)	1305(392)	967(290)
Protein Equivalent, g	13.5	10.0	Vitamin D ₃ , IU (mcg)	348(8.7)	258(6.4)
Fat, g	23.0	17.0	Vitamin E, IU (mg α-TE)	10.9(7.3)	81(5.4)
Saturated, g	7.5	5.6	Vitamin K, mcg	38.0	28.1
Monounsaturated, g	9.4	7.0	Thiamine, mcg	500	370
Polyunsaturated, g	5.0	3.7	Riboflavin, mcg	500	370
DHA, mg	70.0	51.9	Vitamin B ₆ , mcg	500	370
ARA, mg	140	104	Vitamin B ₁₂ , mcg	12	0.89
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.0	39.3	Folic Acid, mcg	55.0	40.7
Fiber, g	5.3	3.9	Pantothenic Acid, mcg	2800	2074
GOS, g	4.7	3.5	Biotin, mcg	18.2	13.5
FOS, g	0.55	0.41	Vitamin C, mg	49.0	36.3
Amino Acids, g			Choline, mg	91.0	67.4
L-Alanine	160	119	Inositol, mg	98.0	72.6
L-Arginine	140	104	Minerals		
L-Aspartic Acid	127	0.94	Calcium, mg	371	275
L-Cystine	0.51	0.38	Phosphorus, mg	270	200
L-Glutamic Acid	159	118	Magnesium, mg	52.5	38.9
L-Glutamine	0.11	0.08	Iron, mg	7.3	5.4
Glycine	0.64	0.47	Zinc, mg	5.2	3.9
L-Histidine	0.94	0.70	Manganese, mcg	390	289
L-Isoleucine	<0.01	<0.01	Copper, mcg	390	289
L-Leucine	2.12	1.57	Iodine, mcg	82.5	61.1
L-Lysine	143	106	Molybdenum, mcg	10.9	8.1
L-Methionine	Nil Added	Nil Added	Chromium, mcg	12.5	9.3
L-Phenylalanine	0.93	0.69	Selenium, mcg	14.1	10.4
L-Proline	0.64	0.47	Sodium, mg	171	127
L-Serine	0.89	0.66	Potassium, mg	454	336
L-Threonine	Nil Added	Nil Added	Chloride, mg	321	238
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			

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 D₃, 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 H₂O 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	Vitamins	
			Per 100 g	Per 10 g Protein Equivalent
Calories	377	135	Vitamin A, IU (mcg RE)	1748 (525) 628 (189)
Protein Equivalent, g	28	10	Vitamin D ₃ , IU (mcg)	1052 (26.3) 379 (9.4)
Fat, g	12.5	4.5	Vitamin E, IU (mg α-TE)	15.6 (10.5) 5.6 (3.8)
Saturated, g	2.0	0.71	Vitamin K, mcg	175 64
Monounsaturated, g	8.2	2.9	Thiamine, mg	0.91 0.33
Polyunsaturated, g	18	0.64	Riboflavin, mg	0.91 0.33
DHA, mg	180	64.3	Vitamin B ₁₂ , mcg	0.91 0.33
Carbohydrate, g	41.2	14.7	Vitamin B ₁₂ , mcg	1.6 0.57
Fiber, g	11.2	4.0	Niacin, mg	2.5 0.90
Soluble, g	8.0	2.9	Folic Acid, mcg	263 93.9
Insoluble, g	3.2	1.1	Pantothenic Acid, mg	5.3 1.9
Amino Acids, g			Biotin, mcg	14.0 5.0
L-Alanine	3.42	1.22	Vitamin C, mg	52.5 18.8
L-Arginine	3.00	1.07	Choline, mg	280 100
L-Aspartic Acid	2.72	0.97	Inositol, mg	70 25.0
L-Cystine	1.56	0.56	Minerals	
L-Glutamine	3.61	1.29	Calcium, mg	1225 438
Glycine	1.37	0.49	Phosphorus, mg	801 286
L-Histidine	2.02	0.72	Magnesium, mg	140 50.0
L-Isoleucine	<0.03	<0.01	Iron, mg	12.5 4.5
L-Leucine	4.54	1.62	Zinc, mg	6.1 2.2
L-Lysine	3.05	1.09	Manganese, mg	12 0.43
L-Methionine	Nil Added	Nil Added	Copper, mcg	700 250
L-Phenylalanine	1.99	0.71	Iodine, mcg	174 62.1
L-Proline	1.37	0.49	Molybdenum, mcg	31.9 11.4
L-Serine	1.98	0.71	Chromium, mcg	12.8 4.6
L-Threonine	Nil Added	Nil Added	Selenium, mcg	35.3 12.6
L-Tryptophan	0.69	0.25	Sodium, mg	350 125
L-Tyrosine	1.99	0.71	Potassium, mg	556 199
L-Valine	Nil Added	Nil Added	Chloride, mg	508 181
L-Carnitine	0.02	0.01		
Taurine	0.06	0.02		

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 D₃, Phylloquinone, D-Biotin, Cyanocobalamin

Contains: Coconut Oil, Soy.

*A source of Docosahexaenoic Acid (DHA)



XMTVI Maxamum®

A methionine-, threonine-, and valine-free, low isoleucine medical food for the dietary management of vitamin B₁₂ 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 H₂O):
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
49805	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	Vitamins	
			Per 100 g	Per 10 g Protein Equivalent
Calories	305	76	Vitamin A, IU (mcg RE)	2228 (669) 557 (167)
Protein Equivalent, g	40	10	Vitamin D ₃ , IU (mcg)	332 (8.3) 83 (2.1)
Fat, g	<1.0	<0.25	Vitamin E, IU (mg α-TE)	18.3 (12.3) 4.6 (3.1)
Carbohydrate, g	34.0	8.5	Vitamin K, mcg	82 20.5
Amino Acids, g			Thiamine, mg	0.91 0.23
L-Alanine	4.6	1.15	Riboflavin, mg	0.97 0.24
L-Arginine	4.1	1.03	Vitamin B ₆ , mg	1.6 0.40
L-Aspartic Acid	3.6	0.90	Vitamin B ₁₂ , mcg	3.1 0.78
L-Cystine	1.5	0.38	Niacin, mg	5.7 1.4
L-Glutamic Acid	4.5	1.13	Folic Acid, mcg	491 123
L-Glutamine	0.32	0.08	Pantothenic Acid, mg	4.9 1.2
Glycine	1.8	0.45	Biotin, mcg	24.5 6.1
L-Histidine	2.8	0.70	Vitamin C, mg	62 15.5
L-Isoleucine	<0.14	<0.05	Choline, mg	430 108
L-Leucine	6.2	1.55	Inositol, mg	80 20
L-Lysine	4.2	1.05	Minerals	
L-Methionine	Nil Added	Nil Added	Calcium, mg	1183 296
L-Phenylalanine	2.7	0.68	Phosphorus, mg	1137 284
L-Proline	1.9	0.48	Magnesium, mg	306 76.5
L-Serine	2.6	0.65	Iron, mg	14.7 3.7
L-Threonine	Nil Added	Nil Added	Zinc, mg	9.0 2.3
L-Tryptophan	1.2	0.30	Manganese, mg	1.8 0.45
L-Tyrosine	2.7	0.68	Copper, mcg	820 205
L-Valine	Nil Added	Nil Added	Iodine, mcg	131 32.8
L-Carnitine	0.04	0.01	Molybdenum, mcg	37 9.3
Taurine	0.14	0.04	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, Beta Carotene (For Color), Beet Juice Concentrate (For Color), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, 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 H₂O 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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	473	350	Vitamin A, IU (mcg RE)	1305 (392)	967 (290)
Protein Equivalent, g	13.5	10.0	Vitamin D ₃ , IU (mcg)	348 (8.7)	258 (6.4)
Fat, g	23.0	17.0	Vitamin E, IU (mg α-TE)	10.9 (7.3)	81 (5.4)
Saturated, g	7.5	5.6	Vitamin K, mcg	38.0	28.1
Monounsaturated, g	9.4	7.0	Thiamine, mcg	500	370
Polyunsaturated, g	5.0	3.7	Riboflavin, mcg	500	370
DHA, mg	70.0	51.9	Vitamin B ₆ , mcg	500	370
ARA, mg	140	104	Vitamin B ₁₂ , mcg	12	0.89
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.0	39.3	Folic Acid, mcg	55.0	40.7
Fiber, g	5.3	3.9	Pantothenic Acid, mcg	2800	2074
GOS, g	4.7	3.5	Biotin, mcg	182	13.5
FOS, g	0.55	0.41	Vitamin C, mg	490	36.3
Amino Acids, g			Choline, mg	910	67.4
L-Alanine	0.68	0.50	Inositol, mg	98.0	72.6
L-Arginine	1.19	0.88	Minerals		
L-Aspartic Acid	1.00	0.74	Calcium, mg	371	275
L-Cystine	0.45	0.33	Phosphorus, mg	270	200
L-Glutamic Acid	1.34	0.99	Magnesium, mg	52.5	38.9
L-Glutamine	0.11	0.08	Iron, mg	7.3	5.4
Glycine	1.07	0.79	Zinc, mg	5.2	3.9
L-Histidine	0.68	0.50	Manganese, mcg	390	289
L-Isoleucine	1.07	0.79	Copper, mcg	390	289
L-Leucine	1.83	1.36	Iodine, mcg	82.5	61.1
L-Lysine	1.24	0.92	Molybdenum, mcg	10.9	8.1
L-Methionine	0.29	0.21	Chromium, mcg	12.5	9.3
L-Phenylalanine	Nil Added	Nil Added	Selenium, mcg	14.1	10.4
L-Proline	1.30	0.96	Sodium, mg	171	127
L-Serine	0.80	0.59	Potassium, mg	454	336
L-Threonine	0.89	0.66	Chloride, mg	321	238
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			

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 D₃, 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 H₂O 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	Vitamins	
			Per 100 g	Per 10 g Protein Equivalent
Calories	385	138	Vitamin A, IU (mcg RE)	1399(420) 500(150)
Protein Equivalent, g	28	10	Vitamin D ₃ , IU (mcg)	840(210) 300(75)
Fat, g	12.5	4.5	Vitamin E, IU (mg α-TE)	12.5 (8.4) 4.5 (3.0)
Saturated, g	2.0	0.71	Vitamin K, mcg	14.0 5.0
Monounsaturated, g	8.2	2.9	Thiamine, mg	0.73 0.26
Polyunsaturated, g	1.8	0.64	Riboflavin, mg	0.73 0.26
DHA, mg	180	64.3	Vitamin B ₆ , mg	0.73 0.26
Carbohydrate, g	432	15.4	Vitamin B ₁₂ , mcg	1.3 0.46
Fiber, g	112	4.0	Niacin, mg	2.0 0.71
Soluble	8.0	2.9	Folic Acid, mcg	210 75
Insoluble	3.2	1.1	Pantothenic Acid, mg	4.2 1.5
Amino Acids, g			Biotin, mcg	112 4.0
L-Alanine	4.71	1.68	Vitamin C, mg	42 15
L-Arginine	167	0.60	Choline, mg	224 80
L-Aspartic Acid	0.41	0.15	Inositol, mg	56 20
L-Cystine	2.71	0.97	Minerals	
L-Glutamine	3.36	1.20	Calcium, mg	980 350
Glycine	3.94	1.41	Phosphorus, mg	641 229
L-Histidine	0.79	0.28	Magnesium, mg	113 40.4
L-Isoleucine	1.66	0.59	Iron, mg	10 3.6
L-Leucine	2.52	0.90	Zinc, mg	4.9 1.8
L-Lysine	2.24	0.80	Manganese, mg	0.92 0.33
L-Methionine	0.56	0.20	Copper, mcg	560 200
L-Phenylalanine	Nil Added	Nil Added	Iodine, mcg	139 49.6
L-Proline	2.71	0.97	Molybdenum, mcg	25.5 9.1
L-Serine	1.59	0.57	Chromium, mcg	10.2 3.6
L-Threonine	2.94	1.05	Selenium, mcg	282 10.1
L-Tryptophan	0.56	0.20	Sodium, mg	280 100
L-Tyrosine	Nil Added	Nil Added	Potassium, mg	445 159
L-Valine	1.96	0.70	Chloride, mg	406 145
L-Carnitine	0.02	0.01		
Taurine	0.05	0.02		

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 D₃, Phylloquinone, D-Biotin, Cyanocobalamin

Contains: Coconut Oil, Soy.

*A source of Docosahexaenoic Acid (DHA)



TYR Lophlex® LQ

A tyrosine- and phenylalanine-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 tyrosinemia (TYR) in individuals 4 years and older, including pregnant women and women of child-bearing age.

Main Features:

- Tyrosine and phenylalanine free*
- Low volume; provides 20 g PE in just 4.2 fl oz (125 mL)
- Convenient ready-to-drink
- Based on fruit juices (from concentrate) with natural flavor - no artificial flavors
- Contains 44.1% juice
- Contains 150 mg of DHA per pouch
- Available in Mixed Berry Blast flavor
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg H₂O

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
66750	49735-0167-50	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.

Nutrition Information:

Nutrients	Per Pouch	Per 10 g	Vitamins	Per Pouch	Per 10 g
	(4.2 fl oz)	Protein Equivalent		(4.2 fl oz)	Protein Equivalent
Calories	120	60	Vitamin A, IU (mcg RE)	949 (285)	475 (143)
Protein Equivalent, g	20	10	Vitamin D ₃ , IU (mcg)	320 (8.0)	160 (4.0)
Fat, g	0.44	0.22	Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
DHA, mg	150	75	Vitamin K, mcg	24.9	12.5
Carbohydrate, g	9.3	4.7	Thiamine, mg	0.54	0.27
Fiber, g	0.50	0.25	Riboflavin, mg	0.50	0.25
Amino Acids, g			Vitamin B ₆ , mg	0.58	0.29
L-Alanine	1.13	0.57	Vitamin B ₁₂ , mcg	1.8	0.90
L-Arginine	1.68	0.84	Niacin, mg	7.1	3.6
L-Aspartic Acid	1.63	0.82	Folic Acid, mcg	120	60.0
L-Cystine	0.83	0.42	Pantothenic Acid, mg	1.8	0.90
Glycine	1.63	0.82	Biotin, mcg	53.4	26.7
L-Histidine	0.95	0.48	Vitamin C, mg	17.8	8.9
L-Isoleucine	1.55	0.78	Choline, mg	153	76.5
L-Leucine	2.50	1.25	Inositol, mg	40.6	20.3
L-Lysine	1.75	0.88	Minerals		
L-Methionine	0.40	0.20	Calcium, mg	319	160
L-Phenylalanine	Trace*	Trace*	Phosphorus, mg	244	122
L-Proline	2.03	1.02	Magnesium, mg	96.3	48.2
L-Serine	1.30	0.65	Iron, mg	5.1	2.6
L-Threonine	1.25	0.63	Zinc, mg	3.8	1.9
L-Tryptophan	0.50	0.25	Manganese, mg	0.56	0.28
L-Tyrosine	Trace*	Trace*	Copper, mcg	563	282
L-Valine	1.65	0.83	Iodine, mcg	56.3	28.2
L-Carnitine	0.02	0.01	Molybdenum, mcg	25.0	12.5
Taurine	0.14	0.07	Chromium, mcg	10.8	5.4
			Selenium, mcg	26.8	13.4
			Sodium, mg	<25.0	<12.5
			Potassium, mg	90.0	45.0
			Chloride, mg	<25.0	<12.5

Ingredients:

Water, Apple Juice Concentrate (34.1%), Grape Juice Concentrate (6.9%), Blackcurrant Juice Concentrate (2.5%), L-Leucine, L-Lysine Acetate, Citric Acid, L-Proline, L-Arginine, L-Valine, L-Aspartic Acid, Glycine, L-Isoleucine, L-Serine, L-Threonine, Corn Syrup Solids, Dicalcium Phosphate, L-Alanine, L-Histidine, L-Cystine, Elderberry Juice Concentrate (0.6%), Maltodextrin, Magnesium Acetate, Sugar, N-Acetyl-L-Methionine, L-Tryptophan, Choline Bitartrate, *C. cohnii* Oil**, Microcrystalline Cellulose, Natural Flavor, Taurine, Fruit Concentrate, L-Ascorbic Acid, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate, Sucralose, Ferrous Lactate, 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 D₃, Cyanocobalamin.

**A Source of Docosahexaenoic Acid (DHA).

*May contain traces of tyrosine (at a level of <2.5 mg per 100 mL) and phenylalanine (at a level of <5 mg per 100 mL) from fruit juice concentrate.



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 fat, no artificial flavors

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	20x12.5g (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 10 g Protein Equivalent (1 pouch)		Minerals	Per 10 g Protein Equivalent (1 pouch)	
	Per 100 g Powder	Per 10 g Protein Equivalent (1 pouch)		Per 100 g Powder	Per 10 g Protein Equivalent (1 pouch)
Calories	324	40	Calcium, mg	621	78
Protein Equivalent, g	80	10	Phosphorus, mg	320	40.0
Fat, g	<0.1	<0.1	Potassium, mg	960	120
Carbohydrate, g	<1.0	<0.5	Sodium, mg	1125	141
Amino Acids, g					
L-Alanine	3.2	0.40			
L-Arginine	3.9	0.48			
L-Aspartic Acid	4.7	0.59			
L-Cystine	12	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			

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® 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 H₂O 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 10 g Protein Equivalent		Vitamins	Per 10 g Protein Equivalent	
	Per 100 g	Equivalent		Per 100 g	Equivalent
Calories	385	321	Vitamin A, IU (mcg RE)	3197(960)	2664(800)
Protein Equivalent, g	12.0	10.0	Vitamin D ₃ , IU (mcg)	920(23.0)	767(19.2)
Fat, g	17.0	14.2	Vitamin E, IU (mg α-TE)	275 (18.5)	22.9 (15.4)
Saturated, g	1.9	1.6	Vitamin K, mcg	92.2	76.8
Monounsaturated, g	10.8	9.0	Thiamine, mg	1.5	1.3
Polyunsaturated, g	3.5	2.9	Riboflavin, mg	1.5	1.3
Linoleic Acid, mg	2786	2322	Vitamin B ₆ , mg	1.5	1.3
Carbohydrate, g	46.0	38.3	Vitamin B ₁₂ , mcg	3.8	3.2
Amino Acids, g			Niacin, mg	9.6	8.0
L-Alanine	Nil Added	Nil Added	Folic Acid, mcg	461	384
L-Arginine	Nil Added	Nil Added	Pantothenic Acid, mg	6.1	5.1
L-Asparagine	Nil Added	Nil Added	Biotin, mcg	34.6	28.8
L-Aspartic Acid	Nil Added	Nil Added	Vitamin C, mg	120	100
L-Citrulline	Nil Added	Nil Added	Choline, mg	480	400
L-Cystine	0.43	0.36	Inositol, mg	108	90
L-Glutamic Acid	Nil Added	Nil Added	Minerals		
L-Glutamine	Nil Added	Nil Added	Calcium, mg	1555	1296
Glycine	Nil Added	Nil Added	Phosphorus, mg	1555	1296
L-Histidine	0.51	0.43	Magnesium, mg	246	205
L-Isoleucine	2.26	1.88	Iron, mg	26.9	22.4
L-Leucine	3.82	3.18	Zinc, mg	21.1	17.6
L-Lysine	1.92	1.60	Manganese, mg	3.6	3.0
L-Methionine	0.40	0.33	Copper, mcg	1900	1583
L-Phenylalanine	0.67	0.56	Iodine, mcg	276	230
L-Proline	Nil Added	Nil Added	Molybdenum, mcg	63.4	52.8
L-Serine	Nil Added	Nil Added	Chromium, mcg	41.3	34.4
L-Threonine	1.59	1.33	Selenium, mcg	76.8	64.0
L-Tryptophan	0.48	0.40	Sodium, mg	1114	928
L-Tyrosine	1.23	1.03	Potassium, mg	1613	1344
L-Valine	2.29	1.91	Chloride, mg	864	720
L-Carnitine	0.01	0.01			
Taurine	0.07	0.06			

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 D₃, 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 D₃, 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 H₂O 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 H₂O):

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 D₃, 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 D₃, Phylloquinone, D-Biotin, Cyanocobalamin.

Contains: Soy, Coconut Oil.

*A source of Docosahexaenoic Acid (DHA)

PhenylAde[®] Essential Drink Mix

Orange Creme: Sugar, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Asparagine Monohydrate, L-Glutamine, Natural And Artificial Flavors, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, Contains 2% Or Less Of The Following: L-Arginine, Monocalcium Phosphate, Corn Syrup Solids, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, Coconut Oil, Soybean Oil, L-Threonine, L-Isoleucine, Potassium Chloride, Citric Acid, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Magnesium Oxide, L-Cystine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon Dioxide, Tricalcium Phosphate, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, FD&C Yellow #6, Niacinamide, Calcium Phosphate, Zinc Oxide, Copper Gluconate, Vitamin K₁, Vitamin D₃, 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 B₁₂, Chromium Chloride, Sodium Molybdate.

Contains: Coconut Oil, Soybean Oil.

Strawberry: Sugar, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, L-Lysine Acetate, Natural And Artificial Flavors, L-Alanine, L-Leucine, L-Serine, Contains 2% Or Less Of The Following: L-Arginine, Monocalcium Phosphate, Corn Syrup Solids, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, Coconut Oil, Soybean Oil, L-Threonine, L-Isoleucine, Potassium Chloride, Citric Acid, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Magnesium Oxide, L-Cystine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon Dioxide, Tricalcium Phosphate, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Niacinamide, Calcium Phosphate, Zinc Oxide, Copper Gluconate, Vitamin K₁, Vitamin D₃, 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 B₁₂, Chromium Chloride, Sodium Molybdate.

Contains: Coconut Oil, Soybean Oil.

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 or 1 pouch	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 40 Drink Mix		
1 pouch	25	10
PhenylAde 60 Drink Mix		
Enclosed scoop or 1 pouch	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 or 1 pouch	12.4	10
1 Tbsp	8.5	6.9
1 cup	116	94

Measure	g Product	g Protein Equivalent
GlutarAde Junior		
Enclosed scoop	9.8	0.98
1 Tbsp	9.3	0.93
1 cup	146	14.6
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 Junior		
Enclosed scoop	8.5	1.1
1 Tbsp	8.4	1.1
1 cup	118	15.2
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; ¼ cup = 80 mL; ⅓ 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 prebiotic oligosaccharide blend.

Administration:

- Must be consumed in conjunction with a whole protein source (eg. 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

Metabolic formulas 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	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 nutritional requirements.
- Periflex Advance is intended for older 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 is best served chilled.
- Periflex tastes great when blended 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	Prescribed Amount	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 Guidelines for Maxamum

Dilution	Amount of Powder	Volume of Water	Approx. PE
1 to 7	35 g	245 mL (approx. 8 fl oz)	14 g
1 to 7	1 pouch (50 g)	350 mL (approx. 12 fl oz)	20 g
1 to 5	35 g	175 mL (approx. 6 fl oz)	14 g
1 to 5	1 pouch (50 g)	250 mL (approx. 8 fl oz)	20 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/pouches 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®

Formulas 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 the phenylalanine and general nutrient 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 dilution 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 1 scoop or pouch (40 g) to approx. 7 fl oz (210 mL) of cold water.
- **PhenylAde GMP Drink Mix**
Add contents of 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.
- **PhenylAde40 Drink Mix**
Add contents of 1 pouch (25 g) to approx. 4-6 fl oz (120-180 mL) of cold water.
- **PhenylAde60 Drink Mix**
Add contents of 1 scoop or pouch (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

Phenylalanine-free powdered medical food containing the remaining essential amino acids (large neutral amino acids and lysine). 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).

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.

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

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 given 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®: Junior, 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 nutrient 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 in the tables that follow.
- 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 Junior

- 1 level, unpacked scoop provides approx. 8.5 g of powder. For better accuracy use a gram scale.

Dilution of approx. 21 calories per 1 fl oz (30 mL)

To Make Approx.	Water	Amount of Powder
2 fl oz (60 mL)	1.8 fl oz (55 mL)	8.5 g
4 fl oz (120 mL)	3.7 fl oz (110 mL)	17 g
6 fl oz (180 mL)	5.3 fl oz (160 mL)	26 g
8 fl oz (240 mL)	7.2 fl oz (215 mL)	34 g

Dilution of approx. 30 calories per 1 fl oz (30 mL)

To Make Approx.	Water	Amount of Powder
2 fl oz (60 mL)	1.7 fl oz (50 mL)	12.1 g
4 fl oz (120 mL)	3.5 fl oz (105 mL)	24.3 g
6 fl oz (180 mL)	5.2 fl oz (155 mL)	36.4 g
8 fl oz (240 mL)	6.8 fl oz (205 mL)	48.6 g

Complex MSD Essential

- Add contents of 1 scoop (40 g) to approx. 7 fl oz (210 mL) of cold water.

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 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®: Junior, 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 nutrient 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 in the tables that follow.
- 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 Junior

- 1 level, unpacked scoop provides approx. 9.8 g of powder. For better accuracy use a gram scale.

Dilution of approx. 20 calories per 1 fl oz (30 mL)

To Make Approx.	Water	Amount of Powder
2 fl oz (60 mL)	1.8 fl oz (55 mL)	9.8 g
4 fl oz (120 mL)	3.6 fl oz (110 mL)	19.6 g
6 fl oz (180 mL)	5.5 fl oz (165 mL)	29 g
8 fl oz (240 mL)	7.2 fl oz (215 mL)	39 g

Dilution of approx. 30 calories per 1 fl oz (30 mL)

To Make Approx.	Water	Amount of Powder
2 fl oz (60 mL)	1.7 fl oz (50 mL)	14.6 g
4 fl oz (120 mL)	3.3 fl oz (100 mL)	29.3 g
6 fl oz (180 mL)	5.2 fl oz (155 mL)	44.0 g
8 fl oz (240 mL)	6.8 fl oz (205 mL)	58.5 g

GlutarAde Essential

- Add contents of 1 scoop (40g) to approx. 7 fl oz (210 mL) of cold water.

GlutarAde Amino Acid Blend

- Add one serving 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® 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 accuracy it is recommended to 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 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.



LOW PROTEIN FOODS



Loprofin and Milupa Low Protein Foods

A line of products to help add variety to a protein-restricted diet. Our low protein food range includes baking mix, pastas, rice, cereals, and more.

Indications: Dietary management of certain inherited metabolic disorders and other medical conditions where a low protein diet is indicated.

For more information, visit www.NutriciaMetabolics.com



Coco, Age 8
Diagnosed with
intractable epilepsy

MEDICAL KETOGENIC DIET



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 H₂O
- Energy distribution:

Protein	8.7%
Carbohydrate	4.1%
Fat (LCT 100%)	87.2%
- Displacement 1 mL/g

Indications:

- Refractory or intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
 - Glucose transporter type-1 deficiency syndrome (GLUT1)
 - 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

WIC¹: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

UPDATED
March 2021

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal*	Minerals	Per 100 g	Per 100 kcal*
Calories	711	100	Calcium, mg	729	103
Protein, g	15.4	2.2	Phosphorus, mg	492	69.2
Carbohydrate, g	72	1.0	Magnesium, mg	70.3	9.9
Fat, g	68.6	9.7	Iron, mg	10.9	1.5
Saturated, g	26.6	3.7	Zinc, mg	7.7	1.1
Monounsaturated, g	24.0	3.4	Manganese, mg	0.13	0.02
Polyunsaturated, g	18.0	2.5	Copper, mcg	460	64.7
Linoleic Acid, mg	15515	2183	Iodine, mcg	93.5	13.2
α-Linolenic Acid, mg	1284	181	Molybdenum, mcg	31.4	4.4
DHA, mg	180	25.0	Chromium, mcg	26.1	3.7
ARA, mg	180	25.0	Selenium, mcg	24.3	3.4
Vitamins			Sodium, mg	320	45.0
Vitamin A, IU (mcg RE)	1166 (350)	164 (49.3)	Potassium, mg	828	117
Vitamin D ₃ , IU (mcg)	613 (15.3)	86.3 (2.2)	Chloride, mg	491	69.1
Vitamin E, IU (mg α-TE)	12.1 (8.1)	1.7 (1.1)	L-Carnitine, mg	43.9	6.2
Vitamin K, mcg	498	7.0	Taurine, mg	43.8	6.2
Thiamin, 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			

*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 H₂O
- Energy distribution:

Protein	8.2%
Carbohydrate	3.5%
Fiber	1.5%
Fat (LCT 100%)	88.3%
- Displacement 1 mL/g

Indications:

- Refractory or intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
 - Glucose transporter type-1 deficiency syndrome (GLUT1)
 - 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*	Minerals	Per 100 g	Per 100 kcal*
Calories	705	100	Calcium, mg	700	99.3
Protein, g	14.4	2.0	Phosphorus, mg	420	59.6
Carbohydrate, g	8.2	1.2	Magnesium, mg	96.3	13.7
Fiber, g	5.3	0.75	Iron, mg	7.0	0.99
Soluble, g	3.2	0.45	Zinc, mg	3.6	0.51
Insoluble, g	2.1	0.30	Manganese, mg	0.83	0.12
Fat, g	69.2	9.8	Copper, mcg	500	71.0
Saturated, g	26.7	3.8	Iodine, mcg	86.2	12.2
Monounsaturated, g	22.8	3.2	Molybdenum, mcg	28.7	4.1
Polyunsaturated, g	19.7	2.8	Chromium, mcg	14.8	2.1
Linoleic Acid, mg	16200	2300	Selenium, mcg	27.0	3.8
α-Linolenic Acid, mg	1700	241	Sodium, mg	481	68.2
DHA, mg	110	15.6	Potassium, mg	771	109
ARA, mg	120	17.0	Chloride, mg	726	103
Vitamins			L-Carnitine, mg	45.0	6.4
Vitamin A, IU (mcg RE)	1232 (370)	175 (52.5)	Taurine, mg	33.0	4.7
Vitamin D ₃ , IU (mcg)	420 (10.5)	59.6 (15)			
Vitamin E, IU (mg α-TE)	15.9 (10.7)	2.3 (15)			
Vitamin K, mcg	31.0	4.4			
Thiamin, mg	0.89	0.13			
Riboflavin, 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			

* 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

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 ₂ O
Unflavored	280 mOsm/kg H ₂ O
- 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 or intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
 - Glucose transporter type-1 deficiency syndrome (GLUT1)
 - 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*: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

Nutrition Information:

Nutrients	Per 100 mL	Per Carton (237 mL)	Minerals, Trace Elements	Per 100 mL	Per Carton (237 mL)
Calories	150	356	Calcium, mg	88.4	210
Protein, g	3.09	7.32	Phosphorus, mg	88.4	210
Carbohydrate, g	1.73	4.10	Magnesium, mg	22.7	53.8
Fiber, g	1.12	2.65	Iron, mg	1.5	3.6
Soluble, g	0.56	1.33	Zinc, mg	12	2.8
Insoluble, g	0.56	1.33	Manganese, mg	0.18	0.43
Fat, g	14.8	35.1	Copper, mcg	120	284
Saturates, g	2.2	5.2	Iodine, mcg	18.5	43.8
Monounsaturates, g	8.3	19.7	Molybdenum, mcg	6.2	14.7
Polyunsaturates, g	3.7	8.8	Chromium, mcg	3.2	7.6
Linoleic Acid, mg	3228	7650	Selenium, mcg	7.1	16.8
α-Linolenic Acid, mg	313	741	Sodium, mg (mEq)	103 (4.5)	244 (10.6)
DHA, mg	55.0	131	Potassium, mg (mEq)	165 (4.2)	391 (10.02)
ARA, mg	55.0	131	Chloride, mg (mEq)	155 (4.4)	367 (10.4)
			L-Carnitine, mg	8.3	19.7
			Taurine, mg	6.3	14.9
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 (15)	5.5 (3.6)			
Vitamin K, mcg	5.6	13.3			
Thiamin, mg	0.19	0.45			
Riboflavin, mg	0.15	0.36			
Vitamin B6, mg	0.15	0.36			
Vitamin B12, 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			

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 Tocopherol Acetate, Soy Lecithin, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Ascorbyl Palmitate, Cupric Sulfate, Thiamin 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 D₃, 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® 2.5:1 LQ

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. 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 H₂O
- Energy distribution:

Protein	12%
Carbohydrate	2.9%
Fiber	15%
Fat (MCT 25% LCT 75%)	84%
- Free water 76.7%
- Density 1.02 g/mL

Indications:

- Refractory or intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
 - Glucose transporter type-1 deficiency syndrome (GLUT1)
 - 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 Carton (237 mL)		Minerals, Trace Elements	Per Carton (237 mL)	
	Per 100 mL	Per Carton (237 mL)		Per 100 mL	Per Carton (237 mL)
Calories	153	363	Calcium, mg	115	273
Protein, g	4.5	107	Phosphorus, mg	900	213
Carbohydrate, g	2.2	52	Magnesium, mg	26.0	616
Fiber, g	1.1	26	Iron, mg	1.4	3.3
Soluble, g	0.56	13	Zinc, mg	0.91	2.2
Insoluble, g	0.56	13	Manganese, mcg	180	427
Fat, g	14.3	339	Copper, mcg	120	284
Saturated, g	4.8	114	Iodine, mcg	19.0	45.0
Trans, g	0.0	0.0	Molybdenum, mcg	5.5	13.0
Medium Chain Triglycerides, g	3.6	85	Chromium, mcg	2.5	5.9
Monounsaturated, g	8.0	190	Selenium, mcg	5.4	12.8
Polyunsaturated, g	1.5	3.6	Sodium, mg	117	277
DHA, mg	58.2	138	Potassium, mg	250	593
			Chloride, mg	207	491
			L-Carnitine, mg	8.3	20.0
			Taurine, mg	6.3	14.9
Vitamins					
Vitamin A, IU (mcg RE)	300 (90.0)	710 (213)			
Vitamin D ₃ , IU (mcg)	92.0 (2.3)	218 (5.5)			
Vitamin E, IU (mg α-TE)	5.9 (4.0)	14.0 (9.5)			
Vitamin K ₁ , mcg	7.8	18.5			
Thiamin, 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			

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

Calories/day	Calories/mo	KetoCal 4:1 Powder		KetoCal 3:1 Powder		KetoCal 4:1 LQ (Vanilla or Unflavored)		KetoCal 2.5:1 LQ	
		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.



SPECIALIZED ADULT NUTRITION

Stephanie
Registered Nurse



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



Pro-Stat® Sugar Free

A sugar free, ready-to-drink liquid protein medical food providing 15 g of enzyme-hydrolyzed complete protein and 100 calories per 1 fl oz.

Main Features:

- Clinically supported in 3 published trials
 - Managing wounds (1 study)¹
 - Improving anabolism (1 study)²
 - Preserving lean body mass (1 study)³
- Nutrient dense, providing 15 g of protein and 100 calories per 1 fl oz
- Hydrolyzed for rapid absorption & efficient utilization⁴
- High in conditionally-indispensable amino acids needed for recovery⁵⁻¹⁰
- Sugar free
- Nectar-like viscosity
- Lactose free, gluten free, and soy free
- Kosher
- Available in 4 great tasting flavors
- Available in bottles (6/case) or unit doses (96/case)
- For oral and enteral use

Indications:

- Increased protein needs in low volume related to:
 - Stage 1 & 2 pressure injuries
 - Wounds (diabetic, venous, surgical, burns)
 - Unintentional muscle loss
 - Protein-energy malnutrition
 - Low serum proteins
 - Sarcopenia
 - Dialysis
 - Fluid restricted

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
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

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Calories	100
Protein, g	15
Fat, g	0
Carbohydrate, g	10
Minerals	
Sodium, mg	50
Potassium, mg	20
Phosphorus, mg	50

Ingredients:

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, Phosphoric Acid.

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.

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:

- Flush feeding tube with 30-60 mL of water.
- Pour 30 mL of Pro-Stat in a 4-6 fl oz container.
- Add 30-60 mL water and mix well.
- Administer Pro-Stat via syringe.
- 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.

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.

4. Koopman R, et al. *Am J Clin Nutr*. 2009;90:106-15. 5. Morris Jr, SM. *Annu Rev Nutr*. 1992;12:81-101. 6. Curis E, et al. *Amino Acids*. 2005;29:177-205. 7. Wu G, et al. *Biochem J*. 1992;281:45-8. 8. Schwedhelm E, et al. *Br J Clin Pharmacol*. 2008;65:51-9. 9. Waugh WH, et al. *Am J Hematol*. 1999;61:216.

10. Waugh WH, et al. *J Natl Med Assoc*. 2001;93:363-71.



Pro-Stat® AWC (Advanced Wound Care)

A sugar free ready-to-drink liquid protein medical food providing 17 g of enzyme-hydrolyzed complete 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 pressure injury and wound healing¹
- 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 utilization²
- High in conditionally-indispensable amino acids needed for recovery³⁻⁸
- Sugar free
- Honey-like viscosity
- Lactose free, gluten free, 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:
 - Stage 3 & 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	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 sugar free, hydrolyzed whey-based liquid protein medical food. 100% PDCAAS* protein and 80 calories in 1 fl oz.

Main Features:

- Nutrient dense, providing 11 g of 100%-PDCAAS* protein and 80 calories in 1 fl oz to help meet high protein demands¹
- Whey-based hydrolyzed complete protein
- Optimal amount of all 9 indispensable amino acids needed for efficient protein synthesis²⁻⁶
- Sugar free
- Nectar-like viscosity
- 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

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
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. Shake well before opening unit dose or bottle.
3. Pour 30 mL of Pro-Stat MAX in a 4-6 fl oz container.
4. Add 30-60 mL water and mix well.
5. Administer Pro-Stat MAX via syringe.
6. 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.

* 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.



Pro-Stat® Renal Care

A sugar free, ready-to-drink liquid protein medical food providing 15 g of enzyme-hydrolyzed complete protein, 3 g of prebiotic fiber and 100 calories per 1 fl oz.

Main Features:

- Clinically supported in 1 published trial to improve protein anabolism in hemodialysis patients¹
- 15 g of complete protein and 3 g of prebiotic soluble fiber in 1 fl oz
- Hydrolyzed for rapid absorption and efficient utilization²
- High in conditionally-indispensable amino acids needed for recovery³⁻⁸
- Low volume making it appropriate for fluid restricted patients
- Sugar free
- Honey-like viscosity
- Lactose free, gluten free, and soy free
- Kosher
- Available in great tasting tangerine flavor
- Available in bottles (6/case) or 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)
- Dialysis
- Fluid restriction
- Unintentional muscle loss
- Protein-energy malnutrition
- Low serum proteins
- Sarcopenia
- Inadequate protein & fiber intake

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
78388 - Tangerine (bottle)	26974-0410-64	B4155	6 x 30 fl oz	3000
78406 - Tangerine (unit)	26974-0420-65	B4155	96 x 1 fl oz	100

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Calories	100
Protein, g	15
Fat, g	0
Carbohydrate, g	6
Fiber, g	3
Minerals	
Sodium, mg	50
Potassium, mg	20
Phosphorus, mg	50

Ingredients:

Hydrolyzed Collagen Protein, Water, Glycerin, Polydextrose, Fructo-Oligosaccharides (FOS), Malic Acid. Contains 2% or Less: Natural & Artificial Flavor, Phosphoric Acid, 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.

1. Sundell MB, et al. *J Ren Nutr.* 2009;19:412-21. 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.



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 infections¹⁻²
- Low in sugar (1 g sugar per serving)
- Thin viscosity
- Lactose free, gluten free, 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

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Calories	70*
Sugar, g	1
Minerals	
Sodium, mg	15
Potassium, mg	20
Phosphorus, mg	0
<i>Proprietary Blend (Cranberry Concentrate, Ascorbic Acid, D-Mannose, FOS, Bromelain)</i>	
<i>*Glycerin provides a source of calories</i>	

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.

1. Posthauer ME. The Director. 2008;16:13-6. 2. Efras M, et al. Urology. 2010;76:841-5.



Diff-Stat®

A dietary supplement providing a blend of probiotics and a prebiotic that helps to promote intestinal health.†

Main Features:

- Two probiotics and a prebiotic working synergistically to promote intestinal health†
 - *Saccharomyces boulardii*
 - *Bacillus coagulans*
 - Fructo-oligosaccharides
- Available in a convenient capsule or an unflavored powder pack
- No refrigeration required
- For oral and enteral use

Helps Promote:

- Intestinal health†

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	Product Packaging	Calories Per Unit
78390 - Capsules (plain)	26974-0410-80	6 x 60 capsules	150
78408 - Powder pack (Unflavored)	26974-0410-81	96 x 2 g	5

† These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

Supplement Facts:

Serving Size: 2 Capsules

Amount Per Serving	Per 2 Capsules
Calories	5
Carbohydrate, g	<1
Dietary Fiber, g	<1
Proprietary blend, mg	942
<i>FOS (Fructo-oligosaccharides)</i>	
<i>Saccharomyces boulardii</i>	
<i>Bacillus coagulans</i>	

Supplement Facts:

Serving Size: 1 Powder Pack (2 g)

Amount Per Serving	Per Powder Pack
Calories	5
Carbohydrate, g	1
Sugar, g	0.5
Proprietary blend, mg	942
<i>FOS (Fructo-oligosaccharides)</i>	
<i>Saccharomyces boulardii</i>	
<i>Bacillus coagulans</i>	

Processing may impact level of colony forming units (CFU).

Other Ingredients:

Capsules: Gelatin, Natural & Artificial Flavors. Contains 2% or less: Rice Bran Extract, Rice Concentrate, Sucralose, Silicon Dioxide, and Ethyl Maltol.

Contains: Milk.

Powder Packs: Microcrystalline cellulose, Maltodextrin, Silicon Dioxide.

Suggested Use:

- Take two capsules or one powder pack once daily.

Directions for Oral Consumption:

- Consume 2 capsules with fluid or break open capsule and consume.*
- Dissolve powder pack in 30 mL juice and consume.*

Directions for Diff-Stat Through a Feeding Tube:**

1. Flush the tube with 30-60 ml water.
 2. Mix contents of Diff-Stat with 30 mL water and administer immediately straight into the enteral tube.*
 3. Flush the tube with additional 30-60 mL water.
- * Diff-Stat is only viable for 30 minutes in solution.

** For residents/patients with a CVC, open Diff-Stat capsule or powder pack in a separate room. Probiotics could be aerosolized or inadvertently introduced into a CVC line when the pack is opened, presenting a contamination risk.

Precautions:

- Diff-Stat should be taken 1 hour before or 2 hours after antifungal medication.
- Do not use in case of yeast allergy.

Storage:

- Do not expose to excessive heat.
- Do not refrigerate.
- Store in a cool, dry place.

† These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



Fiber-Stat®

A low volume liquid prebiotic fiber medical food for the dietary management of bowel regularity in persons unable to meet fiber requirements through a normal diet.

Main Features:

- 15 grams of soluble prebiotic fiber in 1 fl oz
- Contains fructo-oligosaccharides (FOS) and polydextrose to support gut health¹⁻²
- Ready-to-drink or mix with any food or beverage
- Thin viscosity
- Lactose free, soy free and gluten free
- Kosher
- Available in bottles (6/case) or unit doses (96/case)
- For oral and enteral use

Indications:

- Constipation
- Bowel regularity
- Low fiber intake
- Colon health

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
78389 - Prune (bottle)	26974-0410-70	B4104	6 x 30 fl oz	1500
78407 - Prune (unit)	26974-0410-71	B4104	96 x 1 fl oz	50

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Calories	50*
Carbohydrate, g	25
Sugar, g	2.5
Dietary Fiber, g	15
Soluble Fiber, g	15
Minerals	
Sodium, mg	15
Potassium, mg	52
Phosphorus, mg	25

* Glycerin & polydextrose provide a source of calories

Ingredients:

Water, Polydextrose, Glycerin, Prune Juice Concentrate, Fructo-oligosaccharides (FOS). Contains 2% or less: Sodium Benzoate (to help protect flavor), Potassium Sorbate (to help protect flavor), Phosphoric Acid.

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:

- 1-2 servings per day.
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 the prescribed dose via syringe.
3. Administer Fiber-Stat straight into the enteral tube.
4. Flush the tube with additional 30-60 mL water.

Precautions:

- Do not consume more than 60 mL (4 Tbsp) per day without healthcare provider recommendation.
- Do not use if intestinal obstruction, fecal impaction or known allergy to any component is present.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

Storage:

- Store and serve 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.

1. Losada MA, et al. Nutr Res. 2002;22:71-84. 2. Jie Z, et al. Am J Clin Nutr. 2000;72:1503-9.



Habul, age 4
Diagnosed with MSUD

OTHER NUTRITIONALS



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 H₂O
1.0 kcal/mL: 365 mOsm/kg H₂O

Indications:

- Long chain fatty acid oxidation disorders
- Hyperlipoproteinemia type 1
- Other lipid and lymphatic disorders where a low fat, high MCT diet is indicated
- Chylolthorax

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	Vitamins	Per 100 g	Per 100 kcal
Calories, kcal	441	100	Pantothenic Acid, mg	2.0	0.45
Protein, g	12.8	2.9	Biotin, mcg	14.0	3.2
Fat, g	12.9	2.9	Vitamin C, mg	53.9	12.2
MCT, g	10.9	2.5	Choline, mg	90.9	20.6
LCT, g	2.0	0.45	Inositol, mg	78.7	17.9
Linoleic acid, mg	869	197	Minerals		
α-Linolenic acid, mg	175	39.7	Calcium, mg	329	74.7
ARA, mg	60	14.1	Phosphorus, mg	198	44.9
DHA, mg	60	14.1	Magnesium, mg	39.6	9.0
Carbohydrate, g	68.6	15.6	Iron, mg	6.0	1.4
Vitamins			Zinc, mg	4.1	0.93
Vitamin A, IU (mcg RE)	1158 (348)	263 (79.1)	Manganese, mg	0.03	0.01
Vitamin D ₃ , IU (mcg)	428 (10.7)	97.2 (2.4)	Copper, mcg	323	73.2
Vitamin E, IU (mg α-TE)	6.6 (4.4)	1.5 (1.0)	Iodine, mcg	79.6	18.1
Vitamin K, mcg	16.1	3.7	Molybdenum, mcg	21.6	4.9
Thiamin, mg	0.32	0.07	Chromium, mcg	8.9	2.0
Riboflavin, mg	0.47	0.11	Selenium, mcg	15.6	3.6
Vitamin B ₆ , mg	0.40	0.09	Sodium, mg	189	42.9
Vitamin B ₁₂ , mcg	0.57	0.13	Potassium, mg	357	81.2
Niacin, mg	2.7	0.61	Chloride, mg	271	61.6
Folic Acid, mcg	63.2	14.4			

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.ohnii* 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 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 H₂O
- 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 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 H₂O
- 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 H₂O
- 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
½ cup	38.7 g	148 kcal
1 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 H₂O
- 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. eosinophilic 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 H₂O
- 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 D₃, 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.



Single Amino Acids

Pure amino acid powders.

See opposite page.

Administration:

- Intake to be determined by a medical professional and is dependent on the age, body weight, and medical condition of the patient.

Precautions:

- For use under medical supervision.
- Do not heat, bake or add to hot food or beverages above 130°F.
- This product is nutritionally incomplete.
- Not for parenteral use.

Storage:

- Keep at controlled room temperature (68°-77°F). Protect from heat, humidity and light.
- After opening, cover with resealable lid and store in a cool dry place.

Suggested mixing dilution:

- A 10% solution can be made by mixing 1 g of amino acids into 100 mL of sterilized water. Every 1 mL of solution provides 10 mg of amino acids.

Note: This method will work for all amino acids that are water soluble. L-Tyrosine is not water soluble.

Ordering/Reimbursement Information:

Product	Product Code	Reimbursement Code	HCPCS Code	Package Description
L-ARGININE	123512	00847-0012-00	B4155	1 - 50 g bottle
GLYCINE	123513	00847-0013-00	B4155	1 - 50 g bottle
L-ISOLEUCINE	123514	00847-0014-00	B4155	1 - 50 g bottle
L-LEUCINE	123515	00847-0015-00	B4155	1 - 50 g bottle
L-TYROSINE	123516	00847-0016-00	B4155	1 - 50 g bottle
L-VALINE	123517	00847-0017-00	B4155	1 - 50 g bottle

For more reimbursement information see *Resources*.



RESOURCES

Jessica, Nutricia
Navigator Specialist

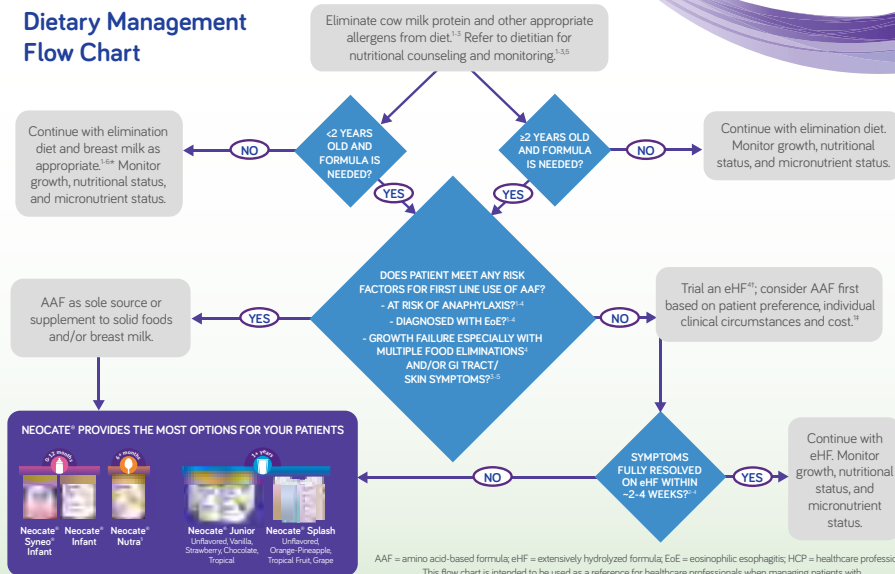
Nutricia Learning Center (NutriciaLearningCenter.com) is a unique education tool for clinicians managing patients with specialized nutritional requirements. This set of valuable resources and clinical tools includes:

- 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.

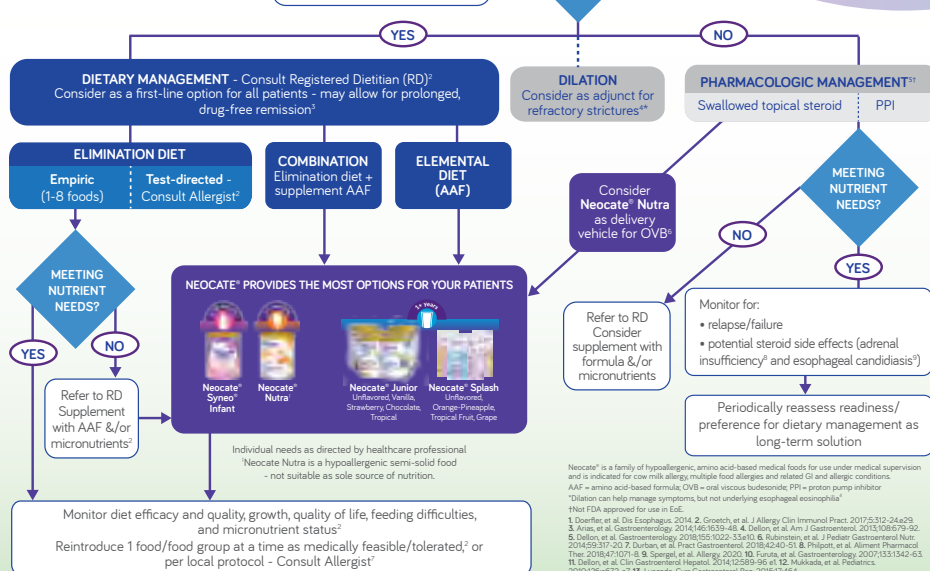
Dietary Management Flow Chart



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.
 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.
 References: 1. Focchi A, et al. 2010;21 Suppl 211-125. 2. Koleizko 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. 2016;5:383-399. 5. Ludman S, et al. BMJ. 2013;347:f5424. 6. Vanderslipas Y, et al. Arch Dis Child. 2007;92:902-8. 7. Hill DJ, et al. Clin Exp Allergy. 2007;37:808-22.

EOSINOPHILIC ESOPHAGITIS

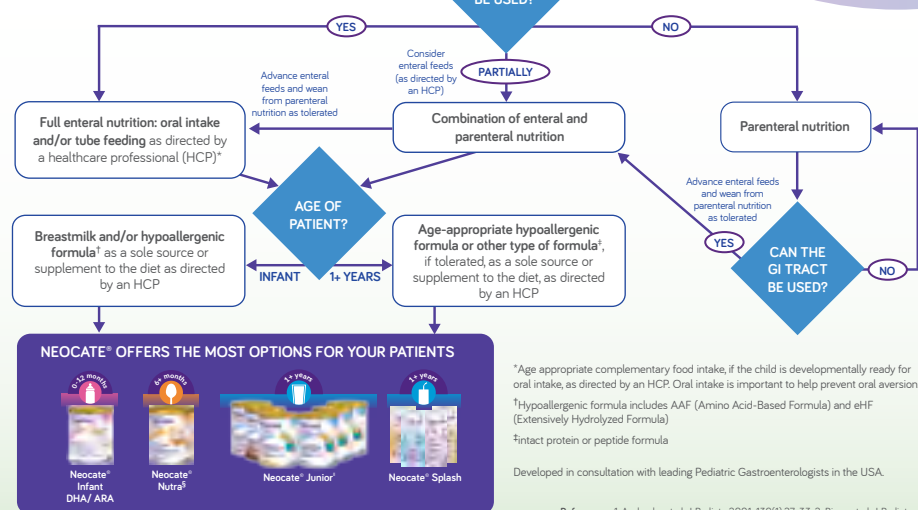
Dietary Management Flow Chart



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 eosinophilia⁶
[†]Not FDA approved for use in EoE.
1. Doerfler, et al. Dis Esophagus. 2014; 2. Goetsch, 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;155:1022-33e10. 6. Rubenstein, et al. J Pediatr Gastroenterol Nutr. 2014;59:317-20. 7. Durban, et al. Pract Gastroenterol. 2018;42:40-51. 8. Philpott, et al. Aliment Pharmacol Ther. 2018;47:1071-8. 9. Spergel, et al. Allergy. 2003; 10. Furuta, et al. Gastroenterology. 2007;133:1342-63.
11. Dellon, et al. Clin Gastroenterol Hepatol. 2014;12:289-96. 12. Mukkada, et al. Pediatrics. 2010;126:e672-e7. 13. Lucendo. Curr Gastroenterol Rep. 2015;17:464.

SHORT BOWEL SYNDROME (SBS)

Dietary Management Flow Chart

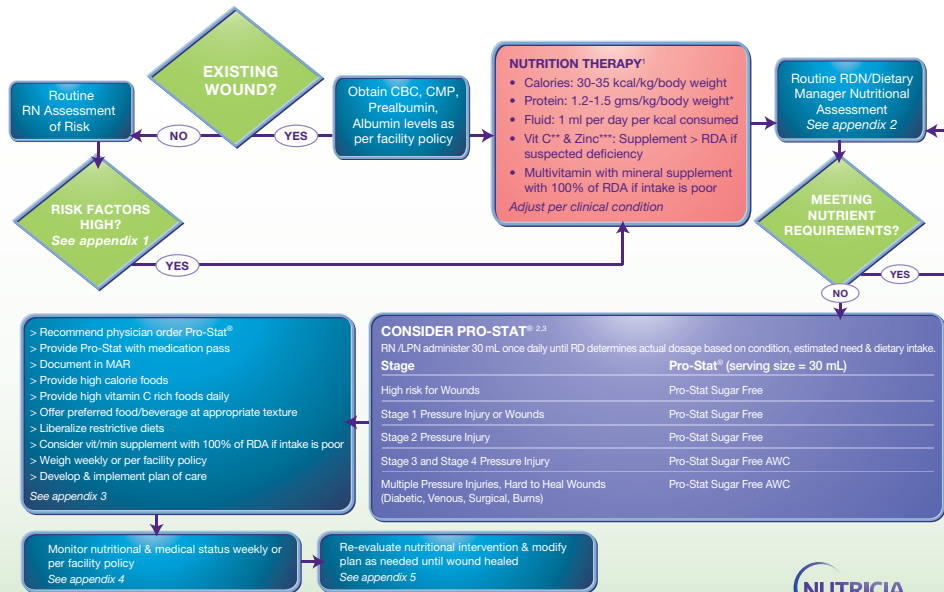


¹Age appropriate complementary food intake, if the child is developmentally ready for oral intake, as directed by an HCP. Oral intake is important to help prevent oral aversion.
²Hypoallergenic formula includes AAF (Amino Acid-Based Formula) and eHF (Extensively Hydrolyzed Formula)
³Intact protein or peptide formula
Developed in consultation with leading Pediatric Gastroenterologists in the USA.

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.

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 foods¹ 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. ³Neocate Nutra is a supplemental amino acid-based solid food for 6+ months. ⁴Neocate Junior is available with and without a prebiotic (soluble) fiber. Neocate Junior, Unflavored (with & without prebiotics), Neocate Junior, Vanilla, Strawberry, Chocolate & Tropical (with prebiotics).

WOUNDS



WOUNDS

Appendix 1: Risk Factors

1. Braden Scale < 16⁴
2. MNA-SF[®] ≤ 11⁵
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. Diagnosis of undernutrition/malnutrition/hydration deficits
10. Decline in ability to eat independently
11. Chewing/swallowing problem/dysphagia
12. Co-morbid conditions: end-stage renal disease, diabetes
13. Cognitive impairments
14. Skin exposure to urinary or fecal incontinence
15. History of pressure injuries
16. Albumin level is ≤ 2.8

Appendix 2: Nutritional Assessment

17. Review diagnosis/medical condition
18. Review skin condition per facility's wound assessment
19. Review of skin assessment screening tools
20. Current dietary intake
21. Amount & quality of protein provided
22. Body mass index
23. Determine deviation from current body weight
24. Determine nutritional needs

References:

1. National Pressure Ulcer Advisory Panel, et al. Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline. Cambridge Media; 2014.
2. Lee SK, et al. Adv Skin Wound Care. 2006;19:92-6.
3. Hays NP, et al. J Am Diet Assoc. 2009;109:1082-7.
4. Braden B. <http://www.bradenscale.com/images/bradenscale.pdf>. Accessed March 11, 2015.
5. Nestle Nutrition Institute. http://www.mna-elderly.com/forms/MNA_english.pdf. Accessed March 11, 2015.

25. Interview for food preferences & intolerances
26. Medications/medical treatments (antibiotics, steroids)
27. Average food/fluid intake, medical food supplements (% consumed)
28. Chewing/swallowing status/ability to eat independently
29. Dehydration risk factors
30. Nutrition related laboratory values: HgbA1C, BUN, albumin, etc. Note: serum hepatic protein values are affected by infection, inflammation, hydration and renal function

Appendix 3: Protein Supplementation

31. Nutrition intervention will be communicated as appropriate to: nursing, dietary, physician, resident, & caregiver
32. Administer PO with med pass, pour amount ordered into med cup
33. Based on preference, it can be mixed with beverage or food of choice
34. If administered via tube-feeding: flush with 30-60 mL water, dilute with 30-60 mL water, & flush tube with additional 30-60 mL
35. Pro-Stat[®] provides:
 - > Sugar Free: 15 g protein, 100 kcal/30 mL
 - > Sugar Free AWC: 17 g protein, 100 kcal/30 mL
36. Viscosity: Pro-Stat Sugar Free is nectar-like, Pro-Stat Sugar Free AWC is honey-like
37. Pro-Stat Sugar Free and Pro-Stat Sugar Free 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

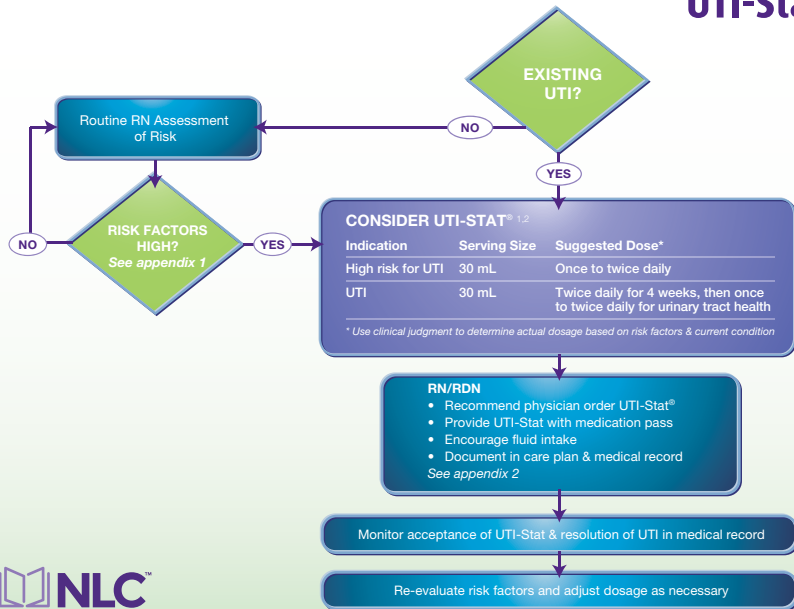
Appendix 4: Monitor Nutritional & Medical Status

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. Document & re-assess per policy

URINARY TRACT INFECTIONS (UTI)

URINARY TRACT INFECTIONS (UTI)

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. Efras M, et al. Urology. 2010;76:841-5.




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.

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, MedicalFood.com/Reimbursement or MyKetoCal.com/Reimbursement.



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)	α-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	12*	17	3	800	2000
4-8 y	1,000	500	130	1*	30	15*	440	90	10	15*	22	5	1000	2300
Males														
9-13 y	1,300	1,250	240	2*	40	25*	700	120	8	19*	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

Macronutrient	Range (percent of energy)		
	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* (α-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.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.FortiniUS.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.MedicalFood.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.NutriciaConnect.com

- Nutricia Connect provides the resources your patients need to help them live their best life while managing a metabolic disorder.
- One-on-one support to obtain formula coverage at no cost to families.
- Easy to understand disorder and product specific education.
- Support resources to help answer questions and help families meet their diet goals.
- And more!

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.

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- 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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