



 **NUTRICIA**
Advanced Medical Nutrition

2015 Product Reference Guide
FOR CLINICIANS

Nutricia Contacts

My Nutricia sales representative(s):

Name:

Phone:.....

Email:

Name:

Phone:.....

Email:

Name:

Phone:.....

Email:

How to Contact Nutricia

Nutricia's Customer Service:

- **Phone:** (800) 365-7354
- **Fax:** (301) 795-2301
- **Email:** CustomerService@nutricia.com
- **Live Chat:** www.Neocate.com (M-F 8:30 am – 7 pm EST)

Nutricia's Nutrition Services:

- **Phone:** (800) 365-7354 – Option 2
- **Email:** NutritionServices@nutricia.com
- **Live Chat:** www.Neocate.com (M-F 8:30 am – 5 pm EST)

Nutricia Metabolics:

- **Phone:** (800) 605-0410
- **Email:** CustomerService@medicalfood.com

Internet:

For information on Nutricia products, reimbursement,* and other helpful resources, visit www.Nutricia-NA.com. For a complete listing of our websites, see pages 232-233.

* For reimbursement information, please see page 227.



- **Nutricia is a Global Health Company**
- **Nutricia Leads the Development and Use of Advanced Medical Nutrition for Specialized Care**
- **Nutricia Products and Services Transform the Daily Lives of Millions of Infants, Children, Adults and Aging Seniors**

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 and reliability 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 pages 232-233 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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Find more information and resources on these and all of our products at www.NutriciaLearningCenter.com

With Added Nucleotides



Neocate[®] Infant DHA / ARA

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

NEW FORMULATION AND MIXING INSTRUCTIONS as of Fall 2013. See page 22.

Main Features:

- Hypoallergenic
- Nucleotides, present in human milk 4.8 mg per 100 kcals
- DHA at 0.35% fatty acids
DHA and ARA at 1:1 ratio
- Over 100 publications and counting support Neocate
- Osmolality (at 0.67 kcal/mL): 340 mOsm/kg
- 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: 168 mOsm/L
- Halal & Kosher Pareve
- Displacement 0.70 mL/g

Indications:

- Cow and soy milk allergy
- Multiple food protein intolerance
- Food allergy-associated conditions:
 - Short bowel syndrome (SBS)
 - Eosinophilic esophagitis (EoE)
 - Malabsorption
 - Gastroesophageal reflux
 - Other GI disorders

For details on administration and household measurements, please see pages 24-35.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
12595	49735-0125-95	B4161	4 x 400 g (14.1 oz)	1932

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal	Minerals	Per 100 g	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	51.0	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 (1.8)	Selenium, mcg	14.5	3
Vitamin E, IU (mg α T.E.)	6.8 (4.6)	1.4 (0.94)	Sodium, mg	189	39.1
Vitamin K, mcg	42.5	8.8	Potassium, mg	525	109
Thiamin, mcg	690	140	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 (54%), Refined Vegetable Oil (Medium Chain Triglycerides (8%), High Oleic Sunflower Oil (6%), Sunflower Oil (5%), Canola Oil (4%)), Calcium Phosphate Dibasic (2%), and less than 2% of each of the following: L-Arginine L-Aspartate, L-Leucine, Tripotassium Citrate, L-Lysine Acetate, L-Glutamine, L-Proline, CAEM (an emulsifier), 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, Thiamin Chloride 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:

- Smooth, spoonable consistency
- Hypoallergenic
- Made with 100% non-allergenic amino acids
- Milk protein- and gluten-free
- High in calcium
- Good source of vitamin D, zinc and iron
- Free from artificial flavors, colors and preservatives
- Energy distribution:

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

Indications:

- Cow and soy milk allergy
- Multiple food protein intolerance
- Food allergy-associated conditions:
 - Short bowel syndrome (SBS)
 - Eosinophilic esophagitis (EoE)
 - Malabsorption
 - Gastroesophageal reflux
 - Other GI disorders

For details on administration and household measurements, please see pages 24-35.

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

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	21.0	7.8
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
Thiamin, mcg	318	118	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	0.6	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 (42%), Rice Starch (19%), Refined Vegetable Oil (18%) (Non-Hydrogenated Coconut (6%), High Oleic Sunflower (6%), Canola (3%), Sunflower (3%)), Sugar (9%), Calcium Phosphate Tribasic (2%), contains 2% or less than each of the following: L-Arginine L-Aspartate, L-Leucine, L-Lysine Acetate, CAEM (An Emulsifier), 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, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Chromium Chloride, Folic Acid, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



Neocate® Junior

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
- Available in unflavored, tropical & chocolate
- Standard dilution = 1 kcal/mL
- Osmolality (mOsm/kg):

Dilution	Unflavored	Tropical	Chocolate
1 kcal/mL	550	630	650
- Free water:

Dilution	Unflavored	Tropical	Chocolate
1 kcal/mL	84.9%	84.0%	84.0%
- Energy distribution:

	Unflavored	Tropical/Chocolate
Protein	13%	14%
Carbohydrate	42%	44%
Fat (MCT 35% / LCT 65%)	45%	42%
- Displacement: 0.72 mL/g

Indications:

- Cow and soy milk allergy
- Multiple food protein intolerance
- Food allergy-associated conditions:
 - Short bowel syndrome (SBS)
 - Eosinophilic esophagitis (EoE)
 - Malabsorption
 - Gastroesophageal reflux
 - Other GI disorders

Meets or exceeds
100% DRIs³ 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 administration and household measurements, please see pages 24-35.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
11790 - Unflavored	49735-0117-90	B4161	4 x 400 g (14.1 oz)	1912
12124 - Tropical	49735-0121-24	B4161	4 x 400 g (14.1 oz)	1804
12690 - Chocolate	49735-0126-90	B4161	4 x 400 g (14.1 oz)	1804

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Unflavored		Tropical and Chocolate	
	Per 100 g	Per 100 kcal	Per 100 g	Per 100 kcal
Calories	478	100	451	100
Protein Equivalent, g	16.0	3.3	16.0	3.5
Fat, g	24.0	5.0	21.0	4.7
Linoleic Acid, mg	2622	549	2300	510
α-Linolenic Acid, mg	661	138	580	129
Carbohydrate, g	49.5	10.4	49.5	11.0
Vitamins				
Vitamin A, IU (mcg RE)	956 (287)	200 (60.0)	902 (271)	200 (60.1)
Vitamin D ₃ , IU (mcg)	380 (9.5)	79.5 (2.0)	360 (9.0)	79.8 (2.0)
Vitamin E, IU (mg α T.E.)	10.0 (6.7)	2.1 (1.4)	9.4 (6.3)	2.1 (1.4)
Vitamin K, mcg	19.2	4.0	19.2	4.3
Thiamin, mg	0.61	0.13	0.61	0.14
Riboflavin, mg	0.96	0.20	0.90	0.20
Vitamin B ₆ , mg	0.48	0.10	0.48	0.11
Vitamin B ₁₂ , mcg	1.9	0.40	1.8	0.40
Niacin, mg	4.3	0.90	4.3	0.95
Folic Acid, mcg	143	29.9	143	31.7
Pantothenic Acid, mg	1.9	0.40	1.9	0.42
Biotin, mcg	14.4	3.0	13.5	3.0
Vitamin C, mg	44.6	9.3	44.6	9.9
Choline, mg	143	29.9	143	31.7
Inositol, mg	105	22.0	105	23.3
Minerals				
Calcium, mg	565	118	540	120
Phosphorus, mg	382	79.9	359	79.6
Magnesium, mg	76.5	16.0	76.5	17.0
Iron, mg	7.4	1.6	7.4	1.6
Zinc, mg	4.7	0.98	4.7	1.0
Manganese, mg	0.62	0.13	0.62	0.14
Copper, mcg	530	111	530	118
Iodine, mcg	85.2	17.8	85.2	18.9
Molybdenum, mcg	21.5	4.5	21.5	4.8
Chromium, mcg	18.0	3.8	18.0	4.0
Selenium, mcg	19.2	4.0	18.0	4.0
Sodium, mg	239	50.0	225	49.9
Potassium, mg	653	137	653	145
Chloride, mg	364	76.2	343	76.1

Ingredients:

Corn Syrup Solids (52%), Refined Vegetable Oil (Palm Kernel and/or Coconut Oil (8%), Canola Oil (8%), High Oleic Safflower Oil (8%)), L-Arginine (2.4%), L-Glutamine (2.3%), L-Lysine L-Aspartate (2%), and less than 2% of each of the following: Tripotassium Citrate, Calcium Phosphate Dibasic, L-Leucine, L-Phenylalanine, L-Proline, Silicon Dioxide, L-Valine, Glycine, L-Isoleucine, N-Acetyl-L-Methionine, L-Threonine, Mono and Diglycerides, Sodium Chloride, L-Histidine, L-Serine, L-Alanine, Magnesium Acetate, Calcium Phosphate Tribasic, Choline Bitartrate, L-Tryptophan, L-Tyrosine, Diacetyl Tartaric Acid Esters of Mono and Diglycerides, M-Inositol, L-Ascorbic Acid, L-Cystine, Propylene Glycol Alginate, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Riboflavin, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.

Tropical flavored version also contains: Artificial Flavor (5.2%), Citric Acid (3.2%), and less than 2% of the following: Artificial Sweetener: Acesulfame Potassium.

Chocolate flavored version also contains: Artificial Flavor (7.2%), Sugar (4.7%), and less than 2% of the following: Artificial Sweetener: Sucralose.



Neocate® Junior with Prebiotics

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
- Available in unflavored, vanilla & strawberry
- Standard dilution= 1 kcal/mL
- Osmolality (mOsm/kg):

Dilution	Unflavored	Vanilla	Strawberry
1 kcal/mL	550	650	630
- Free water:

Dilution	Unflavored	Vanilla	Strawberry
1 kcal/mL	84.5%	84.5%	84.9%
- Energy distribution:

	Unflavored	Vanilla	Strawberry
Protein	13%	14%	14%
Carbohydrate	42%	45%	45%
Fat (MCT 35% / LCT 65%)	45%	41%	41%
- Displacement: Unflavored Vanilla Strawberry

	0.74 mL/g	0.71 mL/g	0.71 mL/g
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Indications:

- Cow and soy milk allergy
- Multiple food protein intolerance
- Food allergy associated conditions:
 - Short bowel syndrome (SBS)
 - Eosinophilic esophagitis (EoE)
 - Malabsorption
 - Gastroesophageal reflux
 - Other GI disorders

Meets or exceeds
100% DRIs⁹ 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 administration and household measurements, please see pages 24-35.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
12912 - Unflavored	49735-012912	B4161	4 x 400 g (14.1 oz)	1912
60627 - Vanilla	49735-010627	B4161	4 x 400 g (14.1 oz)	1836
86456 - Strawberry	49735-016456	B4161	4 x 400 g (14.1 oz)	1876

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Unflavored		Vanilla		Strawberry	
	Per 100g	Per 100 kcal	Per 100g	Per 100 kcal	Per 100g	Per 100 kcal
Calories	478	100	459	100	469	100
Protein Equivalent, g	16.0	3.3	16.0	3.5	16.0	3.4
Fat, g	24.0	5.0	21.0	4.6	21.5	4.6
Linoleic Acid, mg	2622	549	2300	501	2346	500
α-Linolenic Acid, mg	661	138	580	126	592	126
Carbohydrate, g	49.5	10.4	51.4	11.2	52.9	11.3
Fiber, g	1.9	0.40	1.9	0.41	1.9	0.40
Vitamins						
Vitamin A, IU (mcg R.E.)	956 (287)	200 (60.0)	916 (276)	200 (60.1)	956 (287)	204 (61.2)
Vitamin D ₃ , IU (mcg)	380 (9.5)	79.5 (2.0)	364 (9.1)	79.3 (2.0)	372 (9.3)	79.3 (2.0)
Vitamin E, IU (mg α T.E.)	10.0 (6.7)	2.1 (1.4)	9.5 (6.4)	2.1 (1.4)	10.0 (6.7)	2.1 (1.4)
Vitamin K, mcg	19.2	4.0	19.2	4.2	19.2	4.1
Thiamin, mg	0.61	0.13	0.61	0.13	0.61	0.13
Riboflavin, mg	0.96	0.20	0.92	0.20	0.96	0.20
Vitamin B ₆ , mg	0.48	0.10	0.48	0.10	0.48	0.10
Vitamin B ₁₂ , mcg	1.9	0.40	1.8	0.39	1.9	0.41
Niacin, mg	4.3	0.90	4.3	0.94	4.3	0.92
Folic Acid, mcg	143	29.9	143	31.2	143	30.5
Pantothenic Acid, mg	1.9	0.40	1.9	0.41	1.9	0.41
Biotin, mcg	14.4	3.0	13.8	3.0	14.4	3.1
Vitamin C, mg	44.6	9.3	44.6	9.7	44.6	9.5
Choline, mg	143	29.9	143	31.2	143	30.5
Inositol, mg	105	22.0	105	22.9	105	22.4
Minerals						
Calcium, mg	565	118	542	118	565	120
Phosphorus, mg	382	79.9	367	80.0	382	81.5
Magnesium, mg	76.5	16.0	76.5	16.7	76.5	16.3
Iron, mg	7.4	1.6	7.4	1.6	7.4	1.6
Zinc, mg	4.7	0.98	4.7	1.0	4.7	1.0
Manganese, mg	0.62	0.13	0.62	0.14	0.62	0.13
Copper, mcg	530	111	530	115	530	113
Iodine, mcg	85.2	17.8	85.2	18.6	85.2	18.2
Molybdenum, mcg	21.5	4.5	21.5	4.7	21.5	4.6
Chromium, mcg	18.0	3.8	18.0	3.9	18.0	3.8
Selenium, mcg	19.2	4.0	18.4	4.0	19.2	4.1
Sodium, mg	239	50.0	230	50.1	239	51.0
Potassium, mg	653	137	653	142	653	139
Chloride, mg	364	76.2	349	76.0	364	77.6

Ingredients:

Corn Syrup Solids (51%), Refined Vegetable Oils (Palm Kernel and/or Coconut Oil (8%), Canola Oil (7.5%), High Oleic Safflower Oil (7.5%)), L-Arginine (2.4%), L-Glutamine (2.3%), L-Lysine L-Aspartate (2%), and less than 2% of each of the following: Tripotassium Citrate, Calcium Phosphate Dibasic, L-Leucine, L-Phenylalanine, Fructooligosaccharide, Inulin, L-Proline, Silicon Dioxide, L-Valine, Glycine, L-Isoleucine, N-Acetyl-L-Methionine, L-Threonine, Mono and Diglycerides, Sodium Chloride, L-Histidine, L-Serine, L-Alanine, Magnesium Acetate, Calcium Phosphate Tribasic, Choline Bitartrate, L-Tryptophan, L-Tyrosine, Diacetyl Tartaric Acid Esters of Mono and Diglycerides, M-Inositol, L-Ascorbic Acid, L-Cystine, Propylene Glycol Alginate, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Riboflavin, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.

Vanilla and Strawberry flavored versions also contain: Sugar (8%), and less than 2% of the following: Artificial Flavor, Artificial Sweetener: Sucralose.

Strawberry flavored version also contains less than 2% of Citric Acid.



Neocate® Splash, Unflavored

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

Main Features:

- Hypoallergenic
- 100% non-allergenic free amino acids
- Nutritionally complete
- Convenient ready-to-feed 8 fl oz drink boxes
- Gluten- and casein-free
- Available in unflavored
- Energy density = 1 kcal/mL
- Energy distribution:

Protein	12%
Carbohydrate	42%
Fat (MCT 35% / LCT 65%)	46%
- Osmolality: 670 mOsm/kg
- Free water: 84.6%

Indications:

- Cow and soy milk allergy
- Multiple food protein intolerance
- Food allergy-associated conditions:
 - Short bowel syndrome (SBS)
 - Eosinophilic esophagitis (EoE)
 - Malabsorption
 - Gastroesophageal reflux
 - Other GI disorders

Meets or exceeds 100% DRIs⁸ 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

For details on administration, please see pages 24-35.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Box
84451 - Unflavored	49735-0144-51	B4161	27 x 237 mL (8 fl oz)	237

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per drink box (237 mL)	Per 100 mL	Minerals	Per drink box (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	690	291	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
Thiamin, 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 (85%), Maltodextrin (6%), Sugar (5%), Refined Vegetable Oils (High Oleic Sunflower Oil (2.3%), Medium Chain Triglycerides (Modified Palm Kernel and/or Coconut Oil) (1.8%), Canola Oil (0.6%)), and less than 2% of each of the following: L-Arginine, Calcium Glycerophosphate, L-Lysine L-Aspartate, Microcrystalline Cellulose, L-Leucine, L-Phenylalanine, Tripotassium Citrate, Trisodium Citrate, Diacetyl Tartaric Acid Esters of Mono & Diglycerides, Mono and Diglycerides, L-Proline, L-Valine, Glycine, L-Isoleucine, N-Acetyl L-Methionine, Calcium Chloride, L-Threonine, Citric Acid, L-Histidine, L-Serine, L-Ascorbic Acid, Dipotassium Phosphate, L-Alanine, Magnesium Acetate, Choline Bitartrate, L-Tryptophan, L-Tyrosine, Cellulose Gum, M-Inositol, L-Cystine, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Riboflavin, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



Neocate® E028 Splash

A ready-to-feed amino acid-based medical food for individuals over the age of 1.

Main Features:

- Hypoallergenic
- 100% non-allergenic free amino acids
- To supplement essential nutrients in children on elimination diets
- Convenient ready-to-feed 8 fl oz drink boxes
- Available in 3 great flavors:
 - Grape
 - Tropical Fruit
 - Orange-Pineapple
- Energy density = 1 kcal/mL
- Osmolality (at 1 kcal/mL): 820 mOsm/kg
- Free water:

Flavor	Protein	Carbohydrate	Fat (MCT 35% / LCT 65%)
Grape	80.5%	80.5%	77.8%
Tropical Fruit	80.5%	80.5%	77.8%
Orange-Pineapple	80.5%	80.5%	77.8%
- Energy distribution:

Nutrient	Percentage
Protein	10%
Carbohydrate	58%
Fat (MCT 35% / LCT 65%)	32%

Indications:

- Cow and soy milk allergy
- Multiple food protein intolerance
- Food allergy associated conditions:
 - Short bowel syndrome (SBS)
 - Eosinophilic esophagitis (EoE)
 - Gastroesophageal reflux
 - Other GI disorders

For details on administration, please see pages 24-35.

Meets or exceeds 100% DRIs[®] for protein + 75% DRIs for 20 key vitamins & minerals:

1-3 years	950 mL
4-8 years	1245 mL
9-13 years	1660 mL
14-18 years	2370 mL

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Box
12670 - Grape	49735-0126-70	B4161	27 x 237 mL (8 fl oz)	237
12666 - Tropical Fruit	49735-0126-66	B4161	27 x 237 mL (8 fl oz)	237
11050 - Orange-Pineapple	49735-0110-50	B4161	27 x 237 mL (8 fl oz)	237

WIC⁺ eligible in all States.

For more US reimbursement information see page 227.

Nutrition Information:

Nutrients	Per drink box (237 mL)		Minerals	Per drink box (237 mL)	
	Per 100 kcal	Per 100 kcal		Per 100 kcal	Per 100 kcal
Calories	237	100	Calcium, mg	147	62
Protein Equivalent, g	5.9	2.5	Phosphorus, mg	147	62
Fat, g	8.3	3.5	Magnesium, mg	21.3	9
Linoleic Acid, mg	626	264	Iron, mg	1.8	0.77
Carbohydrate, g	34.6	14.6	Zinc, mg	1.8	0.77
Vitamins			Manganese, mg	0.24	0.1
Vitamin A, IU (mcg RE)	277 (83)	117 (35)	Copper, mcg	240	100
Vitamin D ₃ , IU (mcg)	73.5 (1.9)	31 (0.78)	Iodine, mcg	14.2	6
Vitamin E, IU (mg α T.E.)	1.9 (1.3)	0.82 (0.55)	Molybdenum, mcg	8.3	3.5
Vitamin K, mcg	3.6	1.5	Chromium, mcg	7.1	3
Thiamin, mg	0.13	0.06	Selenium, mcg	3.7	1.5
Riboflavin, mg	0.15	0.07	Sodium, mg	47.4	20
Vitamin B ₆ , mg	0.19	0.08	Potassium, mg	220	93
Vitamin B ₁₂ , mcg	0.17	0.07	Chloride, mg	83	35
Niacin, mg	2.1	0.9			
Folic Acid, mcg	14.2	6			
Pantothenic Acid, mg	0.57	0.24			
Biotin, mcg	4.7	2			
Vitamin C, mg	7.4	3.1			
Choline, mg	43.4	18.3			
Inositol, mg	4.3	1.8			

Ingredients:

Water (80%), Maltodextrin (11%), Sugar (5%), and 2% or less of each of the following ingredients: Fractionated Coconut Oil, Canola Oil, High Oleic Sunflower Oil, L-Arginine, L-Lysine, L-Aspartate, Microcrystalline Cellulose, Calcium Glycerophosphate, L-Leucine, L-Phenylalanine, L-Proline, L-Valine, Glycine, L-Isoleucine, Mono and Diglycerides, Diacetyl Tartaric Acid Esters of Mono and Diglycerides, N-Acetyl L-Methionine, L-Threonine, Dispotassium Phosphate, L-Histidine, L-Serine, L-Alanine, Tripotassium Citrate, Fractionated Coconut Oil, Palm Kernel Oil, Magnesium Acetate, L-Tryptophan, Choline Bitartrate, Calcium Chloride, L-Tyrosine, Trisodium Citrate, L-Ascorbic Acid, Sodium Chloride, Artificial Sweetener: Acesulfame Potassium, L-Cystine, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, M-Inositol, Niacinamide, Manganese Sulfate, Cupric Sulfate, Calcium-D-Pantothenate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Palmitate, Thiamin Mononitrate, Chromium Sulfate, Sodium Molybdate, Potassium Iodide, Folic Acid, Sodium Hydrogen Selenite, D-Biotin, Phylloquinone, Vitamin D₃, Cyanocobalamin.

Grape flavored version of this product contains 2% or less of each of the following: Malic Acid, Artificial Flavor, Vitamin E Acetate.

Tropical Fruit flavored version of this product contains 2% or less of each of the following: Artificial Flavor, Citric Acid, Vitamin E Acetate.

Orange-Pineapple flavored version of this product contains 2% or less of each of the following: Artificial Flavors, Citric Acid, Corn Syrup Solids, Malic Acid, DL-alpha Tocopherol Acetate.



Pepdite® Junior

A nutritionally complete powdered medical food, based on free amino acids and non-dairy hydrolysates, for children over the age of 1.

Main Features:

- 44% free amino acids
- 56% low molecular weight peptides (86% < 1000 daltons)
- Nutritionally complete
- Non-dairy hydrolysates
- Extra vitamins and minerals for malabsorptive conditions
- Standard dilution = 1 kcal/mL
- Osmolality (mOsm/kg):
Dilution
1 kcal/mL 430
- Energy distribution:
Protein 12%
Carbohydrate 42%
Fat (MCT 35% / LCT 65%) 46%
- Displacement 0.58 mL/g

Indications:

- Gastrointestinal tract impairment
- Malabsorption
- Short bowel syndrome (SBS)
- Whole protein intolerance
- Other medical conditions for which a semi-elemental diet is required

For a dilution chart, please contact us at (800) 365-7354.

For details on administration and household measurements, please see pages 24-35.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Packet
11766 - Unflavored	49735-0117-66	B4161	15 x 51 g (1.8 oz)	240

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per packet (51 g)	Per 100 kcal	Minerals	Per packet (51 g)	Per 100 kcal
Calories	240	100	Calcium, mg	271	113
Protein Equivalent, g	7.4	3.1	Phosphorus, mg	225	94
Fat, g	12	5	Magnesium, mg	43.1	18
Linoleic Acid, mg	1313	548	Iron, mg	3.3	1.4
Carbohydrate, g	25.5	10.6	Zinc, mg	3.3	1.4
Vitamins			Manganese, mg	0.48	0.2
Vitamin A, IU (mcg RE)	582 (175)	243 (73)	Copper, mcg	265	110
Vitamin D ₃ , IU (mcg)	78 (1.95)	32 (0.8)	Iodine, mcg	23	9.6
Vitamin E, IU (mg α T.E.)	3.9 (2.6)	1.6 (1.1)	Molybdenum, mcg	10.8	4.5
Vitamin K, mcg	6.5	2.7	Chromium, mcg	9.0	3.7
Thiamin, mg	0.24	0.1	Selenium, mcg	7.1	3
Riboflavin, mg	0.24	0.1	Sodium, mg	98	41
Vitamin B ₆ , mg	0.24	0.1	Potassium, mg	327	136
Vitamin B ₁₂ , mcg	0.48	0.2	Chloride, mg	151	63
Niacin, mg	2.9	1.2			
Folic Acid, mcg	72	30			
Pantothenic Acid, mg	0.97	0.4			
Biotin, mcg	4.8	2			
Vitamin C, mg	22.2	9.3			
Choline, mg	90	37.5			
Inositol, mg	53	22			

Ingredients:

Corn Syrup Solids, Hydrolyzed Protein (Pork, Soy), Fractionated Coconut Oil, Canola Oil, High Oleic Safflower Oil, Calcium Phosphate Dibasic, L-Glutamine, Tripotassium Citrate, L-Lysine Acetate, Mono and Diglycerides, L-Leucine, Magnesium Acetate, Choline Hydrogen Tartrate, L-Isoleucine, L-Valine, L-Threonine, Potassium Chloride, L-Tryptophan, L-Cystine, L-Phenylalanine, Diacetyl Tartaric Acid Esters of Mono and Diglycerides, Sodium Chloride, M-Inositol, L-Methionine, L-Ascorbic Acid, L-Histidine, Propylene Glycol Alginate, Ferrous Sulfate, Taurine, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Chromium Sulfate, Niacinamide, Manganese Sulfate, Copper Sulfate, Calcium-D-Pantothenate, Thiamin Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Acetate, Riboflavin, Folic Acid, Potassium Iodide, Sodium Molybdate, Sodium Hydrogen Selenite, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.

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.)
- 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 drink box is opened, formula should be stored in a refrigerator 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 cans at room temperature. Avoid extreme temperatures. Once opened, reseal can and store in a cool, dry place (not a refrigerator). Use within one month.

Sachets: Store unopened sachets at room temperature. Once opened, reseal and store in a cool, dry place (not a refrigerator) and use within one week.

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.

Neocate Infant DHA / ARA**DIRECTIONS FOR PREPARATION:**

To make a standard dilution (20 cal/fl oz), add 1 unpacked level scoop (4.6 g) of powder to each fluid ounce of water. Only use the scoop provided.

1. Wash hands thoroughly and clean the preparation area.
2. Pour the required amount of cooled, boiled water into a sterilized feeding bottle*.
3. Add the prescribed amount of scoops of Neocate Infant DHA/ARA to the water.
4. Place the cap on the bottle and shake until the powder dissolves.

*Boiling is the preferred method for sterilizing water, bottles, nipples and mixing utensils.

Neocate Junior, Neocate Splash, E028 Splash and Pepdite Junior**DIRECTIONS FOR PREPARATION:**

Neocate Splash and E028 Splash: Shake well before use.

Neocate Junior

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. Cover and shake until the powder has dissolved.

Pepdite Junior

1. Pour 7 fl oz (210 mL) of cold water into a container suitable for shaking.
2. Add one packet of Pepdite Junior to yield a final volume of 8 fl oz (240 mL).
3. Shake vigorously until completely dissolved.

Neocate Nutra**DIRECTIONS FOR PREPARATION AND USE:**

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.**

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

Household Measures

Measure	Weight	Measure	Weight
Neocate Infant DHA / ARA and Neocate Nutra		Neocate Junior with Prebiotics, Strawberry	
1 scoop	4.6 g	1 scoop	8.0 g
1/2 tsp	1.3 g	1/2 tsp	1.2 g
1 tsp	2.6 g	1 tsp	2.3 g
1 Tbsp	7.9 g	1 Tbsp	6.9 g
1/4 cup	31.5 g	1/4 cup	27.8 g
1/3 cup	42 g	1/3 cup	37.0 g
1/2 cup	63 g	1/2 cup	55.5 g
1 cup	126 g	1 cup	111 g
Neocate Junior, Unflavored, Tropical and Chocolate		Neocate Junior with Prebiotics, Vanilla	
1 scoop	8.2 g	1 scoop	8.2 g
1/2 tsp	1.2 g	1/2 tsp	1.3 g
1 tsp	2.4 g	1 tsp	2.5 g
1 Tbsp	7.3 g	1 Tbsp	7.5 g
1/4 cup	29 g	1/4 cup	30 g
1/3 cup	38.7 g	1/3 cup	40 g
1/2 cup	58 g	1/2 cup	60 g
1 cup	116 g	1 cup	120 g
Neocate Junior with Prebiotics, Unflavored		Peptide Junior	
1 scoop	8.2 g	1/2 tsp	1 g
1/2 tsp	1.4 g	1 tsp	2 g
1 tsp	2.7 g	1 Tbsp	7 g
1 Tbsp	8.1 g	1/4 cup	25 g
1/4 cup	32.3 g	1/3 cup	33 g
1/3 cup	43 g	1/2 cup	48 g
1/2 cup	64.5 g	1 cup	99 g
1 cup	129 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; 1/2 cup = 120 mL; 1/3 cup = 80 mL; 1/4 cup = 60 mL; 1 Tbsp = 15 mL; 1 tsp = 5 mL; 1/2 tsp = 2.5 mL

Volume Prescription

Neocate Infant DHA / ARA						
Volume/day	20 kcal/fl oz (# cans/mon)	22 kcal/fl oz (# cans/mon)	24 kcal/fl oz (# cans/mon)	26 kcal/fl oz (# cans/mon)	28 kcal/fl oz (# cans/mon)	30 kcal/fl oz (# cans/mon)
20 fl oz	6	7	7	8	9	9
24 fl oz	7	8	9	10	10	11
28 fl oz	9	10	10	11	12	13
32 fl oz	10	11	12	13	14	15
36 fl oz	11	12	13	15	16	17
40 fl oz	12	14	15	16	17	19
Total Volume/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/mon)	(# cs/mon)	(# cans/mon)	(# cs/mon)		
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		Neocate Junior Flavored		Neocate Splash & E028 Splash	
	30 kcal/fl oz		30 kcal/fl oz		30 kcal/fl oz	
	(# cans/mon)	(# cs/mon)	(# cans/mon)	(# cs/mon)	(# boxes/mon)	(# cs/mon)
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® Infant DHA / ARA

Nutrient Dilution Chart (20-25 kcal/fl oz)

Nutrients per 100 mL						
Dilution	20 kcal/fl oz	21 kcal/fl oz	22 kcal/fl oz	23 kcal/fl oz	24 kcal/fl oz	25 kcal/fl oz
Calories	66.7	70.0	73.3	76.7	80.0	83.3
Protein Equivalent, g	1.9	2.0	2.0	2.1	2.2	2.3
Fat, g	3.4	3.6	3.7	3.9	4.1	4.2
Carbohydrate, g	7.2	7.5	7.9	8.3	8.6	9.0
Linoleic Acid, mg	492	517	541	566	590	615
α-Linolenic Acid, mg	57.9	60.8	63.7	66.6	69.5	72.4
Vitamins						
Vitamin A, IU	187	196	205	215	224	233
Vitamin D ₃ , IU	48.6	51.0	53.4	55.9	58.3	60.7
Vitamin E, IU	0.94	0.99	1.0	1.1	1.1	1.2
Vitamin K, mcg	5.9	6.2	6.5	6.7	7.0	7.3
Thiamin, mcg	95.2	100	105	110	114	119
Riboflavin, mcg	74.5	78.3	82.0	85.7	89.4	93.2
Vitamin B ₆ , mcg	74.5	78.3	82.0	85.7	89.4	93.2
Vitamin B ₁₂ , mcg	0.18	0.19	0.20	0.21	0.22	0.22
Niacin, mcg	676	710	744	778	812	845
Folic Acid, mcg	8.8	9.3	9.7	10.2	10.6	11.0
Pantothenic Acid, mcg	400	420	440	460	480	500
Biotin, mcg	2.6	2.8	2.9	3.0	3.1	3.3
Vitamin C, mg	7.1	7.5	7.8	8.2	8.5	8.9
Choline, mg	13.2	13.8	14.5	15.1	15.8	16.5
Inositol, mg	14.9	15.7	16.4	17.1	17.9	18.6
Minerals						
Calcium, mg	77.4	81.3	85.2	89.0	92.9	96.8
Phosphorus, mg	54.8	57.5	60.3	63.0	65.8	68.5
Magnesium, mg	7.0	7.4	7.7	8.1	8.4	8.8
Iron, mg	1.0	1.1	1.1	1.2	1.2	1.3
Zinc, mg	0.73	0.77	0.80	0.84	0.88	0.91
Manganese, mcg	27.6	29.0	30.4	31.7	33.1	34.5
Copper, mcg	56.6	59.4	62.2	65.1	67.9	70.7
Iodine, mcg	13.8	14.5	15.2	15.9	16.6	17.3
Molybdenum, mcg	1.6	1.6	1.7	1.8	1.9	1.9
Chromium, mcg	1.5	1.5	1.6	1.7	1.8	1.8
Selenium, mcg	2.0	2.1	2.2	2.3	2.4	2.5
Sodium, mg	26.1	27.4	28.7	30.0	31.3	32.6
Potassium, mg	72.5	76.1	79.7	83.3	87.0	90.6
Chloride, mg	53.3	55.9	58.6	61.3	63.9	66.6

Neocate® Infant DHA / ARA

Nutrient Dilution Chart (26-30 kcal/fl oz)

Nutrients per 100 mL					
Dilution	26 kcal/fl oz	27 kcal/fl oz	28 kcal/fl oz	29 kcal/fl oz	30 kcal/fl oz
Calories	86.7	90.0	93.3	96.7	100
Protein Equivalent, g	2.4	2.5	2.6	2.7	2.8
Fat, g	4.4	4.6	4.7	4.9	5.1
Carbohydrate, g	9.3	9.7	10.0	10.4	10.8
Linoleic Acid, mg	640	664	689	713	738
α-Linolenic Acid, mg	75.3	78.1	81.0	83.9	86.8
Vitamins					
Vitamin A, IU	243	252	261	271	280
Vitamin D ₃ , IU	63.2	65.6	68.0	70.4	72.9
Vitamin E, IU	1.2	1.3	1.3	1.4	1.4
Vitamin K, mcg	7.6	7.9	8.2	8.5	8.8
Thiamin, mcg	124	129	133	138	143
Riboflavin, mcg	96.9	101	104	108	112
Vitamin B ₆ , mcg	96.9	101	104	108	112
Vitamin B ₁₂ , mcg	0.23	0.24	0.25	0.26	0.27
Niacin, mcg	879	913	947	981	1014
Folic Acid, mcg	11.5	11.9	12.4	12.8	13.3
Pantothenic Acid, mcg	520	540	560	580	600
Biotin, mcg	3.4	3.5	3.7	3.8	3.9
Vitamin C, mg	9.3	9.6	10.0	10.3	10.7
Choline, mg	17.1	17.8	18.4	19.1	19.8
Inositol, mg	19.4	20.1	20.9	21.6	22.4
Minerals					
Calcium, mg	101	105	108	112	116
Phosphorus, mg	71.2	74.0	76.7	79.5	82.2
Magnesium, mg	9.2	9.5	9.9	10.2	10.6
Iron, mg	1.3	1.4	1.4	1.5	1.5
Zinc, mg	0.95	0.99	1.0	1.1	1.1
Manganese, mcg	35.9	37.3	38.6	40.0	41.4
Copper, mcg	73.6	76.4	79.2	82.1	84.9
Iodine, mcg	17.9	18.6	19.3	20.0	20.7
Molybdenum, mcg	2.0	2.1	2.2	2.3	2.3
Chromium, mcg	1.9	2.0	2.0	2.1	2.2
Selenium, mcg	2.6	2.7	2.8	2.9	3.0
Sodium, mg	33.9	35.2	36.5	37.8	39.1
Potassium, mg	94.2	97.8	101	105	109
Chloride, mg	69.3	71.9	74.6	77.3	79.9

Neocate® Junior with Prebiotics, Unflavored

Dilution Charts

20 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.5	105	2	16.4	3.9	117
7.0	210	4	32.8	7.8	234
12.5	375	7	57.4	13.9	417
21.0	630	12	98.4	23.4	703
30.0	900	17	139	33.4	1003

22 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
8.0	240	5	41.0	9.0	270
11.0	330	7	57.4	12.4	372
14.0	420	9	73.8	15.8	475
19.0	570	12	98.4	21.4	643
30.0	900	19	156	33.8	1015

24 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
8.5	255	6	49.2	9.7	291
11.5	345	8	65.6	13.1	394
16.0	480	11	90.2	18.2	547
20.0	600	14	115	22.8	685
29.0	870	20	164	33.0	991

26 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
6.5	195	5	41.0	7.5	225
9.0	270	7	57.4	10.4	312
13.0	390	10	82.0	15.0	451
21.0	630	16	131	24.2	727
29.0	870	22	180	33.4	1003

28 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
6.0	180	5	41.0	7.0	210
9.5	285	8	65.6	11.1	334
17.0	510	14	115	19.8	595
23.0	690	19	156	26.8	805
28.0	840	23	189	32.7	980

30 kcal/fl oz (Standard dilution)					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.5	100	3	24.6	4.0	120
6.5	200	6	49.2	8.0	240
11.0	330	10	82.0	13.0	391
20.0	600	18	148	24.0	715
28.0	840	25	205	33.1	992

32 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
14.5	435	14	115	17.3	520
17.5	525	17	139	20.9	628
21.5	645	21	172	25.7	772
25.5	765	25	205	30.6	917
28.0	840	27	221	33.5	1004

34 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
7.5	225	8	65.6	9.1	274
10.5	315	11	90.2	12.7	382
15.0	450	16	131	18.2	547
20.0	600	21	172	24.2	727
26.0	780	27	221	31.5	944

*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 8.2 grams powder and provides 39.2 kcal. 1 gram provides 4.78 kcal and displaces ~0.74 mL water.
 For household measures, see page 26. Visit www.NutriciaLearningCenter for printable dilution charts and the Neocate Mixing Tool.

Neocate® Junior with Prebiotics, Vanilla

Dilution Charts

20 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.0	150	3	24.6	5.6	167
10.0	300	6	49.2	11.2	335
15.0	450	9	73.8	16.7	502
20.0	600	12	98.4	22.3	670
29.0	870	17	139	32.3	969

22 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4.5	135	3	24.6	5.1	152
9.0	270	6	49.2	10.2	305
15.0	450	10	82.0	16.9	508
21.0	630	14	115	23.7	712
29.0	870	19	156	32.7	981

24 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	4	32.8	6.3	188
9.5	285	7	57.4	10.9	326
14.0	420	10	82.0	15.9	478
21.0	630	15	123	23.9	717
29.0	870	21	172	33.1	992

26 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.0	150	4	32.8	5.8	173
10.0	300	8	65.6	11.6	347
15.0	450	12	98.4	17.3	520
20.0	600	16	131	23.1	693
28.0	840	22	180	32.3	968

28 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
3.5	105	3	24.6	4.1	122
7.0	210	6	49.2	8.2	245
14.0	420	12	98.4	16.3	490
21.0	630	18	148	24.5	735
28.0	840	24	197	32.7	980

30 kcal/fl oz (Standard dilution)					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
4.0	120	4	32.8	5.0	150
7.5	225	7	57.4	9.0	270
14.0	420	13	107	16.5	496
21.0	630	20	164	25.0	750
28.0	840	26	213	33.0	991

32 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
15.5	465	16	131	18.6	558
18.5	555	19	156	22.2	666
22.5	675	23	189	27.0	809
26.5	795	27	221	31.7	952
30.0	900	31	254	36.0	1080

34 kcal/fl oz					
Water Volume*		Neocate Powder [†]		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL
5.5	165	6	49.2	6.7	200
10.0	300	11	90.2	12.1	364
15.5	465	17	139	18.8	564
20.0	600	22	180	24.3	728
28.0	840	31	254	34.0	1020

*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 8.2 grams powder and provides 37.64 kcal. 1 gram provides 4.59 kcal and displaces ~0.71 mL water.
 For household measures, see page 26. Visit www.NutriciaLearningCenter for printable dilution charts and the Neocate Mixing Tool.

Neocate® Junior with Prebiotics, Strawberry

Dilution Charts

20 kcal/fl oz						28 kcal/fl oz					
Water Volume*		Neocate Powder†		Final Volume*		Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL	fl oz	mL	scoops	grams	fl oz	mL
5.0	150	3	24.0	5.6	167	3.5	105	3	24.0	4.1	122
8.5	255	5	40.0	9.4	283	7.0	210	6	48.0	8.1	244
15.0	450	9	72.0	16.7	501	10.5	315	9	72.0	12.2	366
22.0	660	13	104	24.5	734	22.0	660	19	152	25.6	768
32.0	960	19	152	35.6	1068	28.0	840	24	192	32.5	976

22 kcal/fl oz						30 kcal/fl oz (Standard dilution)					
Water Volume*		Neocate Powder†		Final Volume*		Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL	fl oz	mL	scoops	grams	fl oz	mL
3.0	90	2	16.0	3.4	101	4.0	120	4	32.0	5.0	143
7.5	225	5	40.0	8.4	253	7.5	225	7	56.0	9.0	265
12.0	360	8	64.0	13.5	405	11.5	345	11	88.0	13.6	407
20.0	600	13	104	22.5	674	21.0	630	20	160	25.0	744
29.0	870	19	152	32.6	978	28.0	840	26	208	32.9	988

24 kcal/fl oz						32 kcal/fl oz					
Water Volume*		Neocate Powder†		Final Volume*		Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL	fl oz	mL	scoops	grams	fl oz	mL
5.5	165	4	32.0	6.3	188	15.5	465	16	128	18.5	556
9.5	285	7	56.0	10.8	325	19.5	585	20	160	23.3	699
12.5	375	9	72.0	14.2	426	24.5	735	25	200	29.2	877
22.0	660	16	128	25.0	751	29.5	885	30	240	35.2	1055
29.0	870	21	168	33.0	989	34.5	1035	35	280	41.1	1234

26 kcal/fl oz						34 kcal/fl oz					
Water Volume*		Neocate Powder†		Final Volume*		Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL	fl oz	mL	scoops	grams	fl oz	mL
2.5	75	2	16.0	2.9	86	5.5	165	6	48.0	6.6	199
7.5	225	6	48.0	8.6	259	10.0	300	11	88.0	12.1	362
10.0	300	8	64.0	11.5	345	15.5	465	17	136	18.7	562
20.0	600	16	128	23.0	691	20.0	600	22	176	24.2	725
28.0	840	22	176	32.2	965	26.5	795	29	232	32.0	960

*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 8.0 grams powder and provides 37.5 kcal. 1 gram provides 4.69 kcal and displaces ~0.71 mL water.

For household measures, see page 26. Visit www.NutriciaLearningCenter for printable dilution charts and the Neocate Mixing Tool.

Neocate® Junior, Chocolate and Tropical

Dilution Charts

20 kcal/fl oz						28 kcal/fl oz					
Water Volume*		Neocate Powder†		Final Volume*		Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL	fl oz	mL	scoops	grams	fl oz	mL
5.0	150	3	24.6	5.6	168	3.5	105	3	24.6	4.1	122
10.0	300	6	49.2	11.2	335	7.0	210	6	49.2	8.1	244
15.0	450	9	73.8	16.8	503	10.5	315	9	73.8	12.2	366
20.0	600	12	98.4	22.4	671	22.0	660	19	152	25.6	768
30.0	900	18	148	33.5	1006	28.0	840	24	192	32.5	976

22 kcal/fl oz						30 kcal/fl oz (Standard dilution)					
Water Volume*		Neocate Powder†		Final Volume*		Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL	fl oz	mL	scoops	grams	fl oz	mL
3.0	90	2	16.4	3.4	102	4.0	120	4	32.8	5.0	145
6.0	180	4	32.8	6.8	204	7.5	225	7	57.4	8.0	255
12.0	360	8	65.6	13.6	407	11.5	345	11	90.2	13.7	410
19.0	570	13	107	21.6	647	20.0	600	20	164	24.0	730
28.0	840	19	156	31.7	952	28.0	840	27	221	33.3	999

24 kcal/fl oz						32 kcal/fl oz					
Water Volume*		Neocate Powder†		Final Volume*		Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL	fl oz	mL	scoops	grams	fl oz	mL
4.0	120	3	24.6	4.6	138	15.5	465	16	128	18.5	556
8.0	240	6	49.2	9.2	275	19.5	585	20	160	23.3	699
15.0	450	11	90.2	17.2	515	24.5	735	25	200	29.2	877
19.0	570	14	115	21.8	653	29.5	885	30	240	35.2	1055
28.0	840	21	172	32.1	964	34.5	1035	35	280	41.1	1234

26 kcal/fl oz						34 kcal/fl oz					
Water Volume*		Neocate Powder†		Final Volume*		Water Volume*		Neocate Powder†		Final Volume*	
fl oz	mL	scoops	grams	fl oz	mL	fl oz	mL	scoops	grams	fl oz	mL
8.5	255	7	57.4	9.9	296	5.5	165	6	48.0	6.6	199
11.0	330	9	73.8	12.8	383	10.0	300	11	88.0	12.1	362
16.0	480	13	107	18.6	557	15.5	465	17	136	18.7	562
21.0	630	17	139	24.3	730	20.0	600	22	176	24.2	725
28.0	840	23	189	32.5	976	26.5	795	29	232	32.0	960

*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 8.2 grams powder and provides 37.0 kcal. 1 gram provides 4.51 kcal and displaces ~0.72 mL water.

For household measures, see page 26. Visit www.NutriciaLearningCenter for printable dilution charts and the Neocate Mixing Tool.



Find more information and resources on these and all of our products at www.NutriciaLearningCenter.com. For samples, visit www.MedicalFood.com.



Periflex® Infant

A phenylalanine-free powdered infant formula containing iron, DHA and ARA, for the dietary management of phenylketonuria (PKU).



Coming
in 2015:
PKU Periflex®
Early Years

Main Features:

- Phenylalanine-free
- DHA and ARA
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, and minerals
- Periflex Infant provides 13 g of protein equivalent per 100 g of powder
- Osmolality (at 0.67 kcal/mL): 375 mOsm/kg
- Displacement: 0.68 mL/g

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
118326	49735-0183-26	B4162	6 x 400 g (14.1 oz)	1684

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	421	324	Vitamin A, IU (mcg R.E.)	1722 (517)	1325 (398)
Protein Equivalent, g	13	10	Vitamin D, IU (mcg)	252 (6.3)	194 (4.9)
Fat, g	19.1	14.7	Vitamin E, IU (mg. α T.E.)	4.8 (3.2)	4 (2.5)
Saturated, g	6.6	5.1	Vitamin K, mcg	37	28
Monounsaturated, g	7.7	5.9	Thiamin, mcg	390	300
Polyunsaturated, g	3.8	2.9	Riboflavin, mcg	580	446
Linoleic Acid, mg	2850	2192	Vitamin B ₆ , mcg	520	400
DHA, mg	36.4	28.0	Vitamin B ₁₂ , mcg	1.1	0.85
ARA, mg	63.7	49.0	Niacin, mcg	6500	5000
Carbohydrate, g	49.3	38	Folic Acid, mcg	43	33
Amino Acids, g			Pantothenic Acid, mcg	2610	2008
L-Alanine	0.62	0.48	Biotin, mcg	13	10
L-Arginine	1.09	0.84	Vitamin C, mg	39	30
L-Aspartic Acid	1.02	0.78	Choline, mg	55	42
L-Cystine	0.41	0.32	Inositol, mg	98	75
Glycine	0.96	0.74	Minerals		
L-Histidine	0.63	0.48	Calcium, mg	522	402
L-Isoleucine	0.96	0.74	Phosphorus, mg	392	302
L-Leucine	1.65	1.27	Magnesium, mg	52	40
L-Lysine	1.11	0.85	Iron, mg	7.8	6
L-Methionine	0.26	0.20	Zinc, mg	7	5
L-Phenylalanine	None	None	Manganese, mcg	380	292
L-Proline	1.10	0.85	Copper, mcg	520	400
L-Serine	0.72	0.55	Iodine, mcg	65	50
L-Threonine	0.81	0.62	Molybdenum, mcg	20	15
L-Tryptophan	0.31	0.24	Chromium, mcg	15	12
L-Tyrosine	1.44	1.11	Selenium, mcg	15.7	12
L-Valine	1.05	0.81	Sodium, mg (mEq)	157 (6.8)	121 (5.2)
L-Carnitine	0.01	0.01	Potassium, mg (mEq)	653 (16.7)	502 (12.8)
Taurine	0.02	0.02	Chloride, mg (mEq)	325 (9.3)	250 (7.2)
L-Glutamine	1.28	0.98			

Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Soy, Coconut), High Oleic Sunflower Oil, Calcium Phosphate Dibasic, L-Arginine, L-Aspartate, Tripotassium Citrate, L-Leucine, L-Lysine Acetate, L-Tyrosine, L-Glutamine, L-Proline, L-Valine, Glycine, L-Isoleucine, CAEM (An Emulsifier), L-Threonine, L-Serine, L-Histidine, L-Alanine, Sodium Chloride, L-Cystine, L-Tryptophan, L-Methionine, Magnesium Acetate, Magnesium L-Aspartate, Potassium Chloride, M. Alpina Oil*, Choline Bitartrate, M-Inositol, C. Cohnii Oil**, L-Ascorbic Acid, Ferrous Sulfate, Zinc Sulfate, Taurine, Carnitine, Niacinamide, Sunflower Oil, DL- Alpha Tocopherol Acetate, Calcium D-Pantothenate, Cupric Sulfate, Manganese Sulfate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Thiamin Chloride Hydrochloride, Ascorbyl Palmitate, Potassium Iodide, Chromium Sulfate, DL-Alpha Tocopherol, Phylloquinone, Sodium Molybdate, Folic Acid, Sodium Hydrogen Selenite, D-Biotin, Vitamin D₃, Cyanocobalamin.

* A Source of Arachidonic Acid (ARA)

** A Source of Docosahexaenoic Acid (DHA)



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
- Provides 28 g protein equivalent and 12.5 g fat per 100 g of powder
- Available in plain, vanilla, berry and orange
- Osmolality (mOsm/kg): 1340 (at 1 kcal/mL)

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
89477 - Plain	49735-019477	B4162	6 x 400 g (14.1 oz)	1540
89478 - Vanilla	49735-019478	B4162	6 x 400 g (14.1 oz)	1508
89474 - Berry	49735-019474	B4162	6 x 400 g (14.1 oz)	1508
89476 - Orange	49735-019476	B4162	6 x 400 g (14.1 oz)	1508

WIC+ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g		Vitamins	Per 10 g	
	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, 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)
Saturates, g	2	0.71	Vitamin K, mcg	14	5
Monounsaturates, g	8.2	2.9	Thiamin, mg	0.93	0.33
Polyunsaturates, g	1.8	0.64	Riboflavin, mg	0.73	0.26
DHA, mg	180	64.3	Vit. B6, mg	0.73	0.26
Carbohydrate, g	43.2	15.4	Vit. B12, mcg	1.3	0.46
Of which Fiber, g	11.2	4	Niacin, mg (NE)	9	3.2
Soluble	8	2.9	Folic Acid, mg	210	75
Insoluble	3.2	1.1	Pantothenic Acid, mg	4.2	1.5
Amino Acids, g			Biotin, mcg	11.2	4
L-Alanine	4.76	1.7	Vitamin C, mg	42	15
L-Arginine	1.74	0.62	Choline, mg	224	80
L-Aspartic Acid	0.42	0.15	Inositol, mg	56	20
L-Cystine	1.9	0.68	Minerals		
L-Glutamine	3.36	1.2	Calcium, mg	980	350
Glycine	4.59	1.6	Phosphorus, mg	641	228.9
L-Histidine	0.7	0.25	Magnesium, mg	113	40.4
L-Isoleucine	1.4	0.50	Iron, mg	10	3.6
L-Leucine	2.24	0.80	Zinc, mg	4.9	1.75
L-Lysine	1.85	0.66	Manganese, mcg	920	328.6
L-Methionine	0.73	0.26	Copper, mcg	560	200
L-Phenylalanine	None	None	Iodine, mcg	139	49.6
L-Proline	2.24	0.80	Molybdenum, mcg	25.5	9.1
L-Serine	1.2	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	1.0	Potassium, mg	445	158.9
L-Valine	1.68	0.60	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, Fructooligosaccharides, 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, CAEM (an emulsifier), 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, Thiamin Chloride 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 **Berry** version also contains: Natural Flavor, Malic Acid, Artificial Sweetener: Sucralose, Artificial Color (Beet Red). **Vanilla** version also contains: Artificial Sweetener: Sucralose. **Orange** version also contains: Citric Acid, Natural Flavor, Artificial Sweetener: Sucralose, Artificial Colors (Beta Carotene, Beet Red).

**A Source of Docosahexaenoic Acid (DHA)



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
- Low in saturated fat
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements
- Excellent balance of linoleic acid and α -linolenic acid, providing a preferable 4:1 ratio of n-6 to n-3
- Periflex Advance provides 35 g of protein equivalent and 12.6 g of fat per 100 g of powder
- Meets protein requirements in lower volume
- Pleasant taste, smell and texture
- Available in unflavored and orange
- Osmolality (mOsm/kg):

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

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
118305 - Unflavored	49735-0183-05	B4157 or B4162	6 x 454 g (1 lb)	1748
118307 - Orange	49735-0183-07	B4157 or B4162	6 x 454 g (1 lb)	1675

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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 (105.4)	Vitamin A, IU (mcg R.E.)	1951 (586)	557.4 (167.4)
Protein Equivalent, g	35	10	Vitamin D ₃ , IU (mcg)	292 (7.3)	83.4 (2.1)
Fat, g	12.6	3.6	Vitamin E, IU (mg α T.E.)	16.2 (10.9)	4.6 (3.1)
Saturated, g	1.4	0.4	Vitamin K, mcg	71.8	20.5
Monounsaturated, g	7.9	2.3	Thiamin, mg	0.8	0.2
Polyunsaturated, g	2.7	0.8	Riboflavin, mg	0.85	0.2
Linoleic Acid, mg	2064	590	Vitamin B ₆ , mg	1.4	0.4
α -Linolenic Acid, mg	535	153	Vitamin B ₁₂ , mcg	2.7	0.8
Carbohydrate, g (orange)	33 (29)	9.4 (8.3)	Niacin, mg	5	1.4
Amino Acids, g			Folic Acid, mcg	430	122.9
L-Alanine	1.4	0.40	Pantothenic Acid, mg	4.3	1.2
L-Arginine	2.6	0.74	Biotin, mcg	21.4	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	107.4
Glycine	2.5	0.71	Inositol, mg	70	20
L-Histidine	1.5	0.43	Minerals		
L-Isoleucine	2.4	0.69	Calcium, mg	1035	296
L-Leucine	4.0	1.14	Phosphorus, mg	995	284
L-Lysine	3.1	0.89	Magnesium, mg	268	76.6
L-Methionine	0.64	0.18	Iron, mg	12.9	3.7
L-Phenylalanine	None	None	Zinc, mg	7.9	2.3
L-Proline	2.8	0.80	Manganese, mg	1.6	0.5
L-Serine	1.8	0.51	Copper, mcg	720	0.2
L-Threonine	1.9	0.54	Iodine, mcg	115	32.9
L-Tryptophan	0.78	0.22	Molybdenum, mcg	32.4	9.3
L-Tyrosine	3.5	1.00	Chromium, mcg	22.8	6.5
L-Valine	2.5	0.71	Selenium, mcg	50.8	14.5
L-Carnitine	0.03	0.01	Sodium, mg (mEq)	490 (21.3)	140 (6.1)
Taurine	0.12	0.03	Potassium, mg (mEq)	613 (15.7)	175.1 (4.5)
L-Glutamine	4.3	1.23	Chloride, mg (mEq)	490 (14)	140 (4.0)

Ingredients:

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, and 2% or less of each of the following: 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, CAEM (An Emulsifier), Tripotassium Citrate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Manganese Sulfate, Niacinamide, Calcium D-Panthenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.

Unflavored version also contains: Tricalcium Citrate and 2% or less of Tricalcium Phosphate.

Orange flavored version also contains: Artificial Flavor, Citric Acid, Tricalcium Phosphate and 2% or less of each of the following: Tricalcium Citrate, Guar Gum, Xanthan Gum, Artificial Sweetener: Sucralose, Artificial Colors (Beet Red, Beta Carotene).



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
- Can easily be used along with or in place of PKU Periflex Junior Plus or Advance
- No measuring or mixing
- Great addition to any daily PKU diet plan
- Periflex LQ provides 15 g of protein equivalent per 250 mL container
- Available in orange crème and berry crème flavors
- Osmolality (mOsm/kg):
Dilution Orange Berry
0.64 kcal/mL 1080 1030
- Free water: 84%

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Container
12551 - Orange Crème	49735-0125-51	B4162 or B4157	18 x 250 mL (8.5 fl oz)	160
12524 - Berry Crème	49735-0125-24	B4162 or B4157	18 x 250 mL (8.5 fl oz)	160

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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 R.E.)	833 (250)	555 (167)
Protein Equivalent, g	15	10	Vitamin D, IU (mcg)	130 (3.3)	87 (2.2)
Fat, g	5	3.3	Vitamin E, IU (mg α T.E.)	7 (4.8)	4.7 (3.2)
Saturated, g	0.75	0.5	Vitamin K, mcg	30.8	21
Monounsaturated, g	3	2	Thiamin, mg	0.35	0.23
Polyunsaturated, g	1	0.7	Riboflavin, mg	0.38	0.25
Carbohydrate, g	13.8	9.2	Vitamin B ₆ , mg	0.6	0.4
Amino Acids, g			Vitamin B ₁₂ , mcg	1.2	0.8
L-Alanine	0.68	0.45	Niacin, mg	2.1	1.4
L-Arginine	1.28	0.85	Folic Acid, mcg	184	123
L-Aspartic Acid	1.2	0.80	Pantothenic Acid, mg	1.9	1.3
L-Cystine	0.48	0.32	Biotin, mcg	9.3	6.2
Glycine	1.23	0.82	Vitamin C, mg	23.3	16
L-Histidine	0.73	0.49	Choline, mg	161	107
L-Isoleucine	1.13	0.75	Inositol, mg	30	20
L-Leucine	1.95	1.30	Minerals		
L-Lysine	1.5	1.00	Calcium, mg	400	267
L-Methionine	0.33	0.22	Phosphorus, mg	288	192
L-Phenylalanine	None	None	Magnesium, mg	114	76
L-Proline	1.38	0.92	Iron, mg	5.5	3.7
L-Serine	0.85	0.57	Zinc, mg	3.5	2
L-Threonine	0.95	0.63	Manganese, mg	0.7	0.5
L-Tryptophan	0.38	0.25	Copper, mcg	310	207
L-Tyrosine	1.73	1.15	Iodine, mcg	49	33
L-Valine	1.25	0.83	Molybdenum, mcg	14	9
L-Carnitine	0.01	0.01	Chromium, mcg	9.8	7
Taurine	0.08	0.05	Selenium, mcg	21.8	15
L-Glutamine	0	0	Sodium, mg (mEq)	210 (9.3)	140 (6.2)
			Potassium, mg (mEq)	263 (6.8)	175 (4.5)
			Chloride, mg (mEq)	210 (6)	140 (4)

Ingredients:

Water, Sugar, and less than 2% of each 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, Micro-Crystalline 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, Artificial Sweetener: Acesulfame Potassium, Taurine, M-Inositol, Ferrous Sulphate, Tricalcium Phosphate, Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Sulphate, Calcium-D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Cholecalciferol, Folic Acid, Cyanocobalamin.



PhenylAde™ Essential Drink Mix

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

Main Features:

- Phenylalanine-free
- Complete with essential vitamins and minerals
- Contains a 4:1 ratio of omega-6 to omega-3 fatty acids
- 1.5 grams of soluble fiber per serving
- Low in saturated fat
- PhenylAde Essential Drink Mix provides 25 g of protein equivalent and 13 g of fat per 100 g of powder
- Available in chocolate, vanilla, orange creme, strawberry, and unflavored
- Suitable for individuals over 1 year of age
- Available in cans and pouches
- Osmolality (mOsm/kg): 800
Based on standard dilution of 40 g powder to 7 fl oz water (210 mL)

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can/Pouch
CANS				
9501 - Chocolate	00847-0950-12	B4157 or B4162	4 x 454 g (1 lb)	1784
9502 - Vanilla	00847-0950-22	B4157 or B4162	4 x 454 g (1 lb)	1784
9503 - Orange Creme	00847-0950-32	B4157 or B4162	4 x 454 g (1 lb)	1784
9504 - Strawberry	00847-0950-42	B4157 or B4162	4 x 454 g (1 lb)	1784
9508 - Unflavored	00847-0950-82	B4157 or B4162	4 x 454 g (1 lb)	1784
POUCHES				
95014 - Chocolate	00847-0950-14	B4157 or B4162	16 x 40 g (1.4 oz)	157
95024 - Vanilla	00847-0950-24	B4157 or B4162	16 x 40 g (1.4 oz)	157
95034 - Orange Creme	00847-0950-34	B4157 or B4162	16 x 40 g (1.4 oz)	157
95044 - Strawberry	00847-0950-44	B4157 or B4162	16 x 40 g (1.4 oz)	157
95084 - Unflavored	00847-0950-84	B4157 or B4162	16 x 40 g (1.4 oz)	157

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

* 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 R.E.) (25% as beta-carotene)	1700 (637)	680 (255)
Protein Equivalent, g	25	10	Vitamin D, IU (mcg)	600 (15)	240 (6)
Carbohydrate, g	46	18	Vitamin E, IU (mg α.T.E.)	19 (12.7)	7.6 (5.1)
Soluble Fiber, g	3.9	1.5	Vitamin K, mcg	61	24
Fat, g	13	5	Thiamin, mg	1.5	0.6
Saturated Fat, g	2.5	1	Riboflavin, mg	1.5	0.6
Monounsaturated Fat, g	7.9	3.1	Vitamin B ₆ , mg	1.4	0.56
Polyunsaturated Fat, g	2.7	1.1	Vitamin B ₁₂ , mcg	3.0	1.2
Linoleic Acid, mg	2178	871	Niacin, mg	17	6.8
α-Linolenic Acid, mg	545	218	Folic Acid, mcg	300	120
Amino Acids, g			Pantothenic Acid, mg	4	1.6
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	Minerals		
Glycine	1.52	0.61	Calcium, mg	822	329
L-Histidine	0.63	0.25	Phosphorus, mg	788	315
L-Isoleucine	1.04	0.42	Magnesium, mg	210	84
L-Leucine	2.24	0.90	Iron, mg	11	4.4
L-Lysine	1.82	0.73	Zinc, mg	10	4
L-Methionine	0.61	0.24	Manganese, mg	1.3	0.52
L-Phenylalanine	None	None	Copper, mg	1	0.4
L-Proline	1.52	0.61	Iodine, mcg	100	40
L-Serine	2.24	0.90	Molybdenum, mcg	45	18
L-Threonine	1.15	0.46	Chromium, mcg	30	12
L-Tryptophan	0.58	0.23	Selenium, mcg	40	16
L-Tyrosine	2.69	1.08	Sodium, mg	388	155
L-Valine	1.7	0.67	Potassium, mg	872	349
L-Carnitine	0.04	0.01	Chloride, mg	475	190
Taurine	0.08	0.03			

Ingredients:

Sugar¹, Modified Food Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, Natural and Artificial Flavor, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, 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, Titanium Dioxide (Vanilla Flavored), Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silica, 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, D-Calcium Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamin Mononitrate, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride, Sodium Molybdate, FD&C Yellow #6 (Orange Creme Flavored), FD&C Red #40 (Chocolate, Strawberry Flavored), FD&C Blue #1 (Strawberry Flavored), FD&C Blue #2 and Yellow #5 (Chocolate Flavored).

¹Unflavored contains corn syrup solids instead of sugar.



PhenylAde™ GMP Drink Mix

A phenylalanine-low, vanilla-flavored powdered formula containing a balanced mix of glycomacropeptide (GMP), essential and non-essential amino acids, carbohydrates (including fiber), fat (including docosahexaenoic acid (DHA)), vitamins, minerals and trace elements.

Main Features:

- Low in Phenylalanine
- Complete with essential vitamins and minerals
- Contains a source of DHA
- 1.5 grams of soluble fiber per each 10 g PE serving
- PhenylAde GMP Drink Mix provides 30 g of protein equivalent and 12 g of fat per 100 g of powder
- Available in vanilla flavor
- Suitable for individuals with PKU over 1 year of age
- Available in cans and pouches
- Osmolality (mOsm/kg): 460 Based on standard dilution of 33.3 g powder to 5 fl oz water (150 mL)

Indications:

- Phenylketonuria

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can/Pouch
CANS				
6832 - Vanilla	49735-016832	B4157 or B4162	4 x 400 g (14.1 oz)	1584
POUCHES				
68324 - Vanilla	49735-018324	B4157 or B4162	16 x 33.3 g (1.2 oz)	132

WIC⁺ eligible in all States.

For more US reimbursement information see page 217.

* 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 R.E.)	2040 (765)	680 (255)
Protein Equivalent, g	30.0	10.0	Vitamin D, IU (mcg)	900 (22.5)	300 (7.5)
Phenylalanine, mg	46.0	15.3	Vitamin E, IU (mg α T.E.)	22.8 (15.3)	7.6 (5.1)
Fat, g	12.0	4.0	Vitamin K, mcg	72	24
DHA, mg	155	51.6	Thiamin, mg	1.8	0.6
Carbohydrate, g	42.0	14.0	Riboflavin, mg	1.8	0.6
Soluble Fiber, g	4.5	1.5	Vitamin B ₆ , mg	1.7	0.56
Amino Acids, g			Vitamin B ₁₂ , mcg	3.6	1.2
L-Alanine	1.3	0.44	Niacin, mg	15.0	5.0
L-Arginine	1.4	0.47	Folic Acid, mcg	360	120
L-Aspartic acid	1.9	0.63	Pantothenic Acid, mg	4.8	1.6
L-Cystine	0.93	0.31	Biotin, mcg	36	12
L-Glutamic acid	4.1	1.4	Vitamin C, mg	72	24
L-Glycine	2.2	0.75	Choline, mg	300	100
L-Histidine	1.5	0.49	Inositol, mg	60	20
L-Isoleucine	2.3	0.76	Minerals		
L-Leucine	2.3	0.78	Calcium, mg	1050	350
L-Lysine	1.3	0.44	Phosphorus, mg	945	315
L-Methionine	0.44	0.15	Magnesium, mg	252	84
L-Phenylalanine	0.05	0.02	Iron, mg	13.2	4.4
L-Proline	2.6	0.86	Zinc, mg	10.2	3.4
L-Serine	1.6	0.54	Manganese, mg	1.6	0.52
L-Threonine	3.7	1.2	Copper, mcg	1200	400
L-Tryptophan	0.72	0.24	Iodine, mcg	135	45
L-Tyrosine	3.7	1.2	Molybdenum, mcg	54	18
L-Valine	1.8	0.61	Chromium, mcg	36	12
L-Carnitine	0.04	0.01	Selenium, mcg	48	16
Taurine	0.09	0.03	Sodium, mg	465	155
			Potassium, mg	1047	349
			Chloride, mg	569	190

Ingredients:

Whey Protein Concentrate* (FROM 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: L-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, Silica, 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, D-Calcium Pantothenate, D-Biotin, Beta-Carotene, Thiamin Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Vitamin K₁, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride and Sodium Molybdate.

*Contains 15.3 mg of phenylalanine/10 g protein equivalent

**A source of docosahexaenoic acid (DHA)



PhenylAde™ 40 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
- Only ½ gram of fat and 83 calories per serving
- PhenylAde40 Drink Mix provides 40 g of protein equivalent per 100 g of powder
- Available in citrus and unflavored single serve pouches
- Suitable for individuals with PKU over 1 year of age
- Osmolality (mOsm/kg): 1110
Based on standard dilution of 25 g powder to 4 fl oz water (120 mL)

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Pouch
95404 - Unflavored	00847-0954-04	B4157 or B4162	20 x 25 g (0.88 oz)	83
95414 - Citrus	00847-0954-14	B4157 or B4162	20 x 25 g (0.88 oz)	83

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

* 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 pouch)		Per 100 g	(1 pouch)
Calories	330	83	Vitamin A, IU (mcg R.E.) (25% as beta-carotene)	1557 (584)	389 (146)
Protein Equivalent, g	40	10	Vitamin D, IU (mcg)	347 (8.7)	87 (2.2)
Carbohydrate, g	38	9.5	Vitamin E, IU (mg α T.E.)	15.4 (10.3)	3.9 (2.6)
Fat, g	2	0.5	Vitamin K, mcg	60	15
Saturated Fat, g	0.32	0.08	Thiamin, mg	1.4	0.35
Monounsaturated Fat, g	1.2	0.31	Riboflavin, mg	1.3	0.32
Polyunsaturated Fat, g	0.42	0.11	Vitamin B ₆ , mg	1.5	0.38
Amino Acids, g			Vitamin B ₁₂ , mcg	2.8	0.7
L-Alanine	3.85	0.96	Niacin, mg	16.4	4.1
L-Arginine	3.27	0.82	Folic Acid, mcg	468	117
L-Asparagine	5.04	1.26	Pantothenic Acid, mg	5.8	1.5
L-Cystine	0.55	0.14	Biotin, mcg	35	8.8
L-Glutamine	6.34	1.59	Vitamin C, mg	75	18.9
Glycine	2.47	0.62	Choline, mg	284	71
L-Histidine	1.02	0.26	Inositol, mg	86	22
L-Isoleucine	1.64	0.41	Minerals		
L-Leucine	3.64	0.91	Calcium, mg	894	224
L-Lysine	2.98	0.75	Phosphorus, mg	809	202
L-Methionine	1.08	0.27	Magnesium, mg	209	52
L-Phenylalanine	None	None	Iron, mg	12	3
L-Proline	2.47	0.62	Zinc, mg	8	2
L-Serine	4.08	1.02	Manganese, mg	1.8	0.45
L-Threonine	1.92	0.48	Copper, mg	0.87	0.22
L-Tryptophan	0.61	0.15	Iodine, mcg	133	33
L-Tyrosine	3.78	0.95	Molybdenum, mcg	40	10
L-Valine	2.74	0.69	Chromium, mcg	27	6.7
L-Carnitine	0.06	0.01	Selenium, mcg	56	13.9
Taurine	0.12	0.03	Sodium, mg	424	106
			Potassium, mg	776	194
			Chloride, mg	1322	331

Ingredients:

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 (Citrus Flavored), Tricalcium Phosphate, Glycine, L-Proline, Natural Flavor (Citrus Flavored), L-Threonine, L-Isoleucine, Magnesium Phosphate, L-Methionine, Sodium Citrate, L-Histidine, Dipotassium Phosphate, Modified Food Starch, Canola Oil, Maltodextrin, Safflower Oil, Choline Bitartrate, Potassium Chloride, L-Tryptophan, L-Cystine, Sodium Chloride, Coconut Oil, Soybean Oil, Taurine, Silica, Inositol, Ascorbic Acid, L-Carnitine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Ferric Orthophosphate, Vitamin E Acetate, Zinc Sulfate, Niacinamide, Sucralose, D-Calcium Pantothenate, Vitamin K₁, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D₃, Beta-carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamin Mononitrate, Riboflavin, FD&C Yellow #5 (Citrus Flavored), Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride and Sodium Molybdate.



PhenylAde™ 60 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
- Only 49 calories per serving
- PhenylAde60 Drink Mix provides 60 g of protein equivalent per 100 g of powder
- Available in vanilla and unflavored
- Suitable for individuals with PKU over 1 year of age
- Available in cans or single serve pouches
- Osmolality (mOsm/kg): 1256
Based on standard dilution of 16.7 g powder to 3 fl oz (90 mL) water

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code CANS	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can/Pouch
9560 - Unflavored	00847-0956-02	B4157 or B4162	4 x 454 g (1 lb)	1335
9562 - Vanilla	00847-0956-22	B4157 or B4162	4 x 454 g (1 lb)	1335
POUCHES				
95604 - Unflavored	00847-0956-04	B4157 or B4162	30 x 16.7 g (0.59 oz)	49
95624 - Vanilla	00847-0956-24	B4157 or B4162	30 x 16.7 g (0.59 oz)	49

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

* 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	294	49	Vitamin A, IU (mcg R.E.) (25% as beta-carotene)	2331 (874)	389 (146)
Protein Equivalent, g	60	10	Vitamin D, IU (mcg)	520 (13)	87 (2.2)
Carbohydrate, g	11	2	Vitamin E, IU (mg α T.E.)	23 (15.4)	3.8 (2.6)
Fat, g	1	0.17	Vitamin K, mcg	90	15
Saturated Fat, g	<0.5	<0.1	Thiamin, mg	2.1	0.35
Monounsaturated Fat, g	<0.5	<0.1	Riboflavin, mg	1.9	0.32
Polyunsaturated Fat, g	<0.5	<0.1	Vitamin B ₆ , mg	2.3	0.38
Amino Acids, g					
L-Alanine	5.56	0.93	Vitamin B ₁₂ , mcg	4.2	0.7
L-Arginine	4.72	0.79	Niacin, mg	25	4.1
L-Asparagine	8.36	1.39	Folic Acid, mcg	700	117
L-Cystine	0.81	0.13	Pantothenic Acid, mg	8.7	1.5
L-Glutamine	9.31	1.55	Biotin, mcg	53	8.8
Glycine	3.63	0.61	Vitamin C, mg	113	19
L-Histidine	1.51	0.25	Choline, mg	425	71
L-Isoleucine	2.49	0.42	Inositol, mg	129	22
L-Leucine	5.37	0.90	Minerals		
L-Lysine	4.36	0.73	Calcium, mg	1300	217
L-Methionine	1.45	0.24	Phosphorus, mg	1194	199
L-Phenylalanine	None	None	Magnesium, mg	310	52
L-Proline	3.63	0.61	Iron, mg	18	3
L-Serine	5.37	0.90	Zinc, mg	12	2
L-Threonine	2.76	0.46	Manganese, mg	2.7	0.45
L-Tryptophan	1.38	0.23	Copper, mg	1.3	0.22
L-Tyrosine	6.45	1.08	Iodine, mcg	180	30
L-Valine	4.01	0.67	Molybdenum, mcg	60	10
L-Carnitine	0.09	0.01	Chromium, mcg	40	6.7
Taurine	0.18	0.03	Selenium, mcg	83	14
			Sodium, mg	600	100
			Potassium, mg	1162	194
			Chloride, mg	900	150

Ingredients:

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 Flavor (Vanilla Flavored), L-Isoleucine, Magnesium Phosphate, Sodium Citrate, L-Histidine, L-Methionine, L-Tryptophan, Dipotassium Phosphate, Potassium Chloride, Choline Bitartrate, Soy Lecithin, L-Cystine, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Silica, L-Carnitine, Ferric Orthophosphate, Sucralose, Vitamin E Acetate, Zinc Sulfate, Niacinamide, D-Calcium Pantothenate, Vitamin K₁, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D₃, Beta-carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamin Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride and Sodium Molybdate.

Unflavored also contains: Corn Syrup Solids, Modified Food Starch, Canola Oil, Maltodextrin, Safflower Oil, Coconut Oil, Soybean Oil, Ascorbyl Palmitate, Mixed Tocopherols and Rosemary Extract.

Contains soy ingredients.



PhenylAde™ RTD

A phenylalanine-free, ready-to-drink medical food containing amino acids, carbohydrates, vitamins and minerals; for the dietary management of proven phenylketonuria (PKU) in individuals 4 years and older, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine-free
- Complete with essential vitamins and minerals
- Only 60 calories per bottle
- PhenylAde RTD provides 10 g of protein equivalent per 2.5 fl oz (75 mL) bottle
- Available in original flavor blast
- Suitable for individuals with PKU over 4 years of age
- Osmolality (mOsm/kg): 2210

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Bottle
95668	00847-0956-68	B4157 or B4162	12 x 2.5 fl oz (75 mL)	60
Original Flavor Blast				

WIC⁺ eligible in all States. For more reimbursement information see page 227.

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

Nutrition Information:

Nutrients	Per 100 mL	Per Bottle (75 mL)	Nutrients	Per 100 mL	Per Bottle (75 mL)
Calories	80	60	Vitamin A, IU (mcg R.E.) (25% as beta-carotene)	519 (195)	389 (146)
Protein Equivalent, g	13	10	Vitamin D, IU (mcg)	156 (3.9)	117 (2.9)
Carbohydrate, g	7	5	Vitamin E, IU (mg α T.E.)	5.1 (3.4)	3.8 (2.5)
Fat, g	<1	<1	Vitamin K, mcg	20	15
Amino Acids, g			Thiamin, mg	0.43	0.32
L-Alanine	1.24	0.93	Riboflavin, mg	0.43	0.32
L-Arginine	1.05	0.79	Vitamin B ₆ , mg	0.6	0.45
L-Aspartic Acid	1.86	1.39	Vitamin B ₁₂ , mcg	1	0.76
L-Cystine	0.07	0.05	Niacin, mg	5.4	4.1
L-Glutamic Acid	2.07	1.55	Folic Acid, mcg	147	110
Glycine	0.81	0.61	Pantothenic Acid, mg	1.6	1.2
L-Histidine	0.34	0.25	Biotin, mcg	11.7	8.8
L-Isoleucine	0.56	0.42	Vitamin C, mg	25	18.8
L-Leucine	1.19	0.90	Choline, mg	94	71
L-Lysine	0.97	0.73	Inositol, mg	24	18.3
L-Methionine	0.32	0.24	Minerals		
L-Phenylalanine	None	None	Calcium, mg	324	243
L-Proline	0.81	0.61	Phosphorus, mg	228	171
L-Serine	1.19	0.90	Magnesium, mg	69	52
L-Threonine	0.61	0.46	Iron, mg	4	3
L-Tryptophan	0.31	0.23	Zinc, mg	2.7	2
L-Tyrosine	1.43	1.08	Manganese, mg	0.6	0.45
L-Valine	0.89	0.67	Copper, mg	0.27	0.2
L-Carnitine	0.02	0.01	Iodine, mcg	47	35
Taurine	0.04	0.03	Molybdenum, mcg	17.7	13.3
			Chromium, mcg	14.7	11
			Selenium, mcg	18.6	13.9
			Sodium, mg	133	100
			Potassium, mg	213	160
			Chloride, mg	200	150

Ingredients:

Deionized Water, Sugar, L-Glutamic Acid, L-Aspartic Acid, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, Natural Flavor, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Proline, L-Threonine, L-Isoleucine, Dipotassium Phosphate, Magnesium Citrate, L-Histidine, L-Methionine, L-Tryptophan, Sodium Chloride, Choline Bitartrate, Cellulose, Malic Acid, L-Cystine, Sucralose, Ascorbic Acid, Sodium Citrate, Taurine, Inositol, L-Carnitine, Ferrous Sulfate, Vitamin E Acetate, Zinc Sulfate, Niacinamide, D-Calcium Pantothenate, Vitamin A Palmitate, Vitamin K₁, Vitamin D₃, Manganese Sulfate, D-Biotin, Beta-carotene, Thiamin Mononitrate, Pyridoxine Hydrochloride, Copper Sulfate, Potassium Iodide, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride and Sodium Molybdate.



PhenylAde™ Amino Acid Blends

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

Main Features:

- Phenylalanine-free
- Only 40 calories per serving
- 100 g of powder provides 80 g^a of protein equivalent
- PhenylAde MTE Amino Acid Blend contains added calcium, phosphorus, magnesium, chromium, molybdenum, and selenium
- Suitable for individuals with PKU over 1 year of age
- Available in cans and single-serve pouches

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can/Pouch
9500 - Unflavored	00847-0950-00	B4155	4 x 454 g (1 lb)	1466
9596 - MTE Unflavored	00847-0959-60	B4155	4 x 454 g (1 lb)	1421
POUCHES				
95004 - Unflavored	00847-0950-04	B4155	30 x 12.4 g (0.44 oz)	40
95964 - MTE Unflavored	00847-0959-64	B4155	30 x 12.8 g (0.45 oz)	40

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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

Nutrition Information:

Amino Acid Blend Unflavored

Nutrients	Per 10 g Protein Equivalent (1 scoop/pouch)	
	Per 100 g	
Calories	323	40
Protein Equivalent, g	81	10
Carbohydrate, g	0	0
Fat, 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	12.5	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	None	None
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 Unflavored

Nutrients	Per 10 g Protein Equivalent (1 scoop/pouch)	
	Per 100 g	
Calories	312	40
Protein Equivalent, g	78	10
Carbohydrate, g	0	0
Fat, 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	0	0
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	Trace	Trace
Chromium, mcg	23	3
Magnesium, mg	123	15.8
Molybdenum, mcg	23	3
Phosphorus, mg	570	73
Sodium, mg	Trace	Trace
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, Silica, Taurine and 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), Silica, Taurine, L-Carnitine, Calcium Citrate, Chromium Chloride, Sodium Selenite and Sodium Molybdate.

Note: Must combine with an appropriate vitamin & mineral supplement when taken as the sole source of amino acid protein.

^a MTE is 78 g and non-MTE is 81 g per 100 g.



PhenylAde™ Amino Acid Bars

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

Main Features:

- Phenylalanine-free
- Available in chocolate, chocolate crispy, and white chocolate flavors (naturally and artificially flavored)
- PhenylAde Amino Acid Bar provides 10 g of protein equivalent per bar
- Suitable for individuals with PKU over 1 year of age

Indications:

- Phenylketonuria

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS* Code	Product Packaging	Calories Per Bar
9570 White Chocolate	00847-0957-06	A9270 or B9998	12 x 47 g (1.66 oz)	265
9580 Chocolate Crispy	00847-0958-06	A9270 or B9998	12 x 47 g (1.66 oz)	255
9590 Chocolate	00847-0959-06	A9270 or B9998	12 x 47 g (1.66 oz)	265

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

Nutrition Information:

Chocolate, White Chocolate

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 bar)
Calories	564	265
Protein Equivalent, g	21	10
Carbohydrate, g	34	16
Sugars, g	33	15
Fat, g	38	18
Saturated Fat, g	33	15.5
Monounsaturated Fat, g	4.7	2.2
Polyunsaturated Fat, g	0.76	0.36
Trans Fat, g	0	0

Amino Acids, g

L-Alanine	1.98	0.93
L-Arginine	1.68	0.79
L-Asparagine	2.97	1.40
L-Cystine	0.29	0.14
L-Glutamine	3.31	1.55
Glycine	1.29	0.61
L-Histidine	0.54	0.25
L-Isoleucine	0.89	0.42
L-Leucine	1.91	0.90
L-Lysine	1.55	0.73
L-Methionine	0.52	0.24
L-Phenylalanine	None	None
L-Proline	1.29	0.61
L-Serine	1.91	0.90
L-Threonine	0.98	0.46
L-Tryptophan	0.49	0.23
L-Tyrosine	2.29	1.08
L-Valine	1.42	0.67
L-Carnitine	0.03	0.01
Taurine	0.06	0.03

Chocolate Crispy

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 bar)
Calories	541	255
Protein Equivalent, g	21	10
Carbohydrate, g	37	17
Sugars, g	31	14
Fat, g	34	16
Saturated Fat, g	30	14
Monounsaturated Fat, g	3.7	1.7
Polyunsaturated Fat, g	0.67	0.31
Trans Fat, g	0	0

Amino Acids, g

L-Alanine	2.0	0.94
L-Arginine	1.70	0.80
L-Asparagine	2.97	1.40
Aspartic Acid	0.03	0.02
L-Cystine	0.29	0.14
Glutamic Acid	0.07	0.03
L-Histidine	3.31	1.55
L-Isoleucine	1.31	0.61
L-Histidine	0.55	0.26
L-Isoleucine	0.90	0.42
L-Leucine	1.94	0.91
L-Lysine	1.55	0.73
L-Methionine	0.52	0.25
L-Phenylalanine	0.02	0.01
L-Proline	1.31	0.61
L-Serine	1.93	0.91
L-Threonine	0.99	0.47
L-Tryptophan	0.50	0.23
L-Tyrosine	2.31	1.08
L-Valine	1.45	0.68
L-Carnitine	0.03	0.01
Taurine	0.06	0.03

*Crisp rice adds a small amount of natural protein, including PHE.

Ingredients:

Chocolate Flavored Ingredients:

Sugar, Palm Kernel Oil, Amino Acids (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), Cocoa Butter, Artificial Color (Red 40 Lake, Yellow 6 Lake, Blue 1 Lake), Natural and Artificial Flavor, Soy Lecithin (Emulsifier), Taurine and L-Carnitine.

White Chocolate Flavored

Ingredients: Sugar, Palm Kernel Oil, Amino Acids (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), Cocoa Butter, Natural and Artificial Flavor, Soy Lecithin (Emulsifier), Taurine and L-Carnitine.

Chocolate Flavored Crispy

Ingredients: Sugar, Palm Kernel Oil, Amino Acids (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), Crisp Rice, Cocoa Butter, Artificial Color (Red 40 Lake, Yellow 6 Lake, Blue 1 Lake), Natural and Artificial Flavor, Soy Lecithin (Emulsifier), Taurine and L-Carnitine.

Contains Soy Ingredients.

Note: Must combine with an appropriate vitamin & mineral supplement when taken as the sole source of amino acid protein.



PhenylAde™ PheBLOC™ LNA

A 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.

Main Features:

- Phenylalanine-free
- Provides full compliment of essential amino acids (without phenylalanine)
- Simplifies diet management
- Available in tablets or powder
- Suitable for individuals with PKU over 12 years of age

Precautions:

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

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS* Code	Product Packaging	Calories
TABLETS				
95501	00847-0955-01	B9998	550 x 750 mg (0.03 oz)	1650/pack
POUCHES				
95504	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 (750 mg)	Per 5 Tablets (3,750 mg)	Per 10 Tablets (7,500 mg)
Calories	3	15	30
Protein Equivalent, g	0.44	2.2	4.4
Carbohydrate, g	0.2	1	2
Fat, g	0.02	0.1	0.2
Minerals			
Calcium, mg	30.2	151	302
Phosphorus, mg	22.7	114	227
Sodium, mg	0.82	4.1	8.2
Chloride, mg	5.6	28	56
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	None	None	None
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 (3 g Powder)	Per 2 Pouches (6 g Powder)
Calories	10	20
Protein Equivalent, g	2.2	4.4
Carbohydrate, g	0.34	0.68
Fat, g	0	0
Minerals		
Calcium, mg	0	0
Phosphorus, mg	0	0
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	0	0
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:

Tablet Ingredients:

L-Tyrosine, Dicalcium Phosphate, 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 and Silica.

Powder Ingredients:

L-Tyrosine, Maltodextrin, L-Tryptophan, L-Methionine, L-Arginine, L-Threonine, L-Valine, L-Isoleucine, L-Histidine, L-Leucine and L-Lysine Monohydrochloride



XPhe Maxamaid®

A phenylalanine-free powdered medical food for the dietary management of phenylketonuria (PKU) in toddlers and young children.

Main Features:

- Phenylalanine-free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XPhe Maxamaid provides 25 g of protein equivalent per 100 g of powder
- Available in unflavored and orange flavors
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117792 - Orange	49735-0177-92	B4162	6 x 454 g (1 lb)	1471
117793 - Unflavored	49735-0177-93	B4162	6 x 454 g (1 lb)	1471

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	324	130	Vitamin A, IU (mcg R.E.)	1665 (500)	666 (200)
Protein Equivalent, g	25	10	Vitamin D, IU (mcg)	480 (12)	192 (4.8)
Fat, g	<0.1	0.04	Vitamin E, IU (mg α T.E.)	14.3 (9.6)	5.7 (3.8)
Carbohydrate, g	56	22	Vitamin K, mcg	48	19
Amino Acids, g			Thiamin, mg	0.8	0.3
L-Alanine	1.03	0.41	Riboflavin, mg	0.8	0.3
L-Arginine	2.21	0.88	Vitamin B ₆ , mg	0.8	0.3
L-Aspartic Acid	1.85	0.74	Vitamin B ₁₂ , mcg	2	0.8
L-Cystine	0.71	0.28	Niacin, mg	5	2
Glycine	1.77	0.71	Folic Acid, mcg	240	96
L-Histidine	1.27	0.51	Pantothenic Acid, mg	3.2	1.3
L-Isoleucine	1.70	0.68	Biotin, mcg	18	7.2
L-Leucine	2.91	1.16	Vitamin C, mg	62.5	25
L-Lysine	2.22	0.89	Choline, mg	250	100
L-Methionine	0.48	0.19	Inositol, mg	56	22
L-Phenylalanine	None	None	Minerals		
L-Proline	2.05	0.82	Calcium, mg	810	324
L-Serine	1.26	0.50	Phosphorus, mg	810	324
L-Threonine	1.42	0.57	Magnesium, mg	128	51
L-Tryptophan	0.57	0.23	Iron, mg	14	5.6
L-Tyrosine	2.56	1.02	Zinc, mg	11	4.4
L-Valine	1.85	0.74	Manganese, mg	1.9	0.8
L-Carnitine	0.02	0.01	Copper, mcg	1000	400
Taurine	0.14	0.06	Iodine, mcg	144	58
L-Glutamine	1.5	0.60	Molybdenum, mcg	33	13
			Chromium, mcg	21.5	8.6
			Selenium, mcg	40	16
			Sodium, mg (mEq)	580 (25.2)	232 (10)
			Potassium, mg (mEq)	840 (21.5)	336 (8.6)
			Chloride, mg (mEq)	450 (12.9)	180 (5.1)

Ingredients:

Corn Syrup Solids, L-Arginine L-Aspartate, Calcium Phosphate Dibasic, L-Lysine Acetate, L-Leucine, L-Tyrosine, Tripotassium Citrate, L-Proline, and 2% or less of the following: L-Valine, Glycine, L-Isoleucine, L-Glutamine, L-Threonine, L-Serine, L-Histidine, Maltodextrin, L-Alanine, Disodium Hydrogen Phosphate, Sodium Chloride, Magnesium Acetate, L-Cystine, Choline Bitartrate, N-Acetyl L-Methionine, L-Tryptophan, Magnesium L-Aspartate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.

Unflavored version also contains: 2% or less of Sugar.

Orange flavored version also contains: Sugar, Citric Acid, and 2% or less of each of the following: Artificial Flavors, Artificial Colors (Beta Carotene, Beet Red).



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
- Easy transition from XPhe Maxamum
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XPhe Maxamum 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 or sachets

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can/Sachet
118324 - Orange (cans)	49735-0183-24	B4162 or B4157	6 x 454 g (1 lb)	1385
118323 - Unflavored (cans)	49735-0183-23	B4162 or B4157	6 x 454 g (1 lb)	1385
12312 - Orange (sachets)	49735-0123-12	B4162 or B4157	30 x 50 g (1.8 oz)	153
12311 - Unflavored (sachets)	49735-0123-11	B4162 or B4157	30 x 50 g (1.8 oz)	153

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	305	76	Vitamin A, IU (mcg R.E.)	2228 (669)	557 (167)
Protein Equivalent, g	40	10	Vitamin D, IU (mcg)	332 (8.3)	83 (2.1)
Fat, g	<1	<0.25	Vitamin E, IU (mg α.T.E.)	18.3 (12.3)	4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82	21
Amino Acids, g			Thiamin, mg	0.91	0.23
L-Alanine	1.6	0.40	Riboflavin, mg	0.97	0.24
L-Arginine	3	0.75	Vitamin B ₆ , mg	1.6	0.4
L-Aspartic Acid	2.8	0.70	Vitamin B ₁₂ , mcg	3.1	0.8
L-Cystine	1.1	0.28	Niacin, mg	5.7	1.4
Glycine	2.8	0.70	Folic Acid, mcg	491	123
L-Histidine	1.7	0.43	Pantothenic Acid, mg	4.9	1.2
L-Isoleucine	2.7	0.68	Biotin, mcg	24.5	6.1
L-Leucine	4.6	1.15	Vitamin C, mg	62	16
L-Lysine	3.5	0.88	Choline, mg	430	108
L-Methionine	0.73	0.18	Inositol, mg	80	20
L-Phenylalanine	None	None	Minerals		
L-Proline	3.2	0.80	Calcium, mg	1183	296
L-Serine	2	0.50	Phosphorus, mg	1137	284
L-Threonine	2.2	0.55	Magnesium, mg	306	77
L-Tryptophan	0.89	0.22	Iron, mg	14.7	3.7
L-Tyrosine	4	1.00	Zinc, mg	9	2
L-Valine	2.9	0.73	Manganese, mg	1.8	0.5
L-Carnitine	0.039	0.01	Copper, mcg	820	205
Taurine	0.14	0.04	Iodine, mcg	131	33
L-Glutamine	4.9	1.23	Molybdenum, mcg	37	9
			Chromium, mcg	26	7
			Selenium, mcg	58	15
			Sodium, mg (mEq)	560 (24.3)	140 (6.1)
			Potassium, mg (mEq)	700 (17.9)	175 (4.5)
			Chloride, mg (mEq)	560 (16)	140 (4)

Ingredients:

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 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, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.

Orange flavored version also contains: Citric Acid, and 2% or less of each of the following: Artificial Flavor, Artificial Sweetener: Acesulfame Potassium, Artificial Colors (Beta Carotene, Beet Red).



PKU Lophlex® LQ

A phenylalanine-free*, ready-to-drink medical food containing amino acids, vitamins and minerals, based on fruit juice (from concentrate) with natural flavor; for the dietary management of proven 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
- Contains a balanced mixture of other essential and non-essential amino acids, carbohydrates, vitamins and minerals
- Provides 150 mg of DHA per pouch
- Available in juicy tropical, mixed berry blast and juicy orange flavors
- Osmolality: 2460 mOsm/kg

Indications:

- Phenylketonuria

For details on administration, please see pages 148-165.

Ordering/Reimbursement Information:

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

WIC⁺ eligible in all States. For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per Pouch	Per 10 g	Vitamins	Per Pouch	Per 10 g
	(125 mL)	Protein Equivalent		(125 mL)	Protein Equivalent
Calories	120	60	Vitamin A, IU (mcg RE)	949 (285)	475 (143)
Protein Equivalent, g	20	10	Vitamin D, IU (mcg)	320 (8)	160 (4)
Fat, g	0.44	0.2	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	Thiamin, mg	0.54	0.27
Of which Fiber, g	0.5	0.25	Riboflavin, mg	0.5	0.25
Amino Acids, g			Vit. B6, mg	0.58	0.29
L-Alanine	1.16	0.58	Vit. B12, mcg	1.8	0.90
L-Arginine	2	1	Niacin, mg (NE)	7.1	3.6
L-Aspartic Acid	1.75	0.88	Folic Acid, mg	120	60
L-Cystine	0.51	0.26	Pantothenic Acid, mg	1.8	0.9
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	153	76.5
L-Leucine	2.13	1.1	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	1	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, mcg	0.56	0.28
L-Tyrosine	1.88	0.94	Copper, mcg	563	282
L-Valine	1.38	0.69	Iodine, mcg	56.3	28.2
L-Carnitine	0.01	0.01	Molybdenum, mcg	25	12.5
Taurine	0.1	0.05	Chromium, mcg	10.8	5.4
			Selenium, mcg	26.8	13.4
			Sodium, mg	<25 (<10)	<12.5 (<5)
			Potassium, mg	90 (2.3)	45 (1.2)
			Chloride, mg	<25 (<10)	<12.5 (<5)

Ingredients:

Water, and less than 2% of each of the following: 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, L-Ascorbic Acid, Taurine, L-Methionine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Ferrous Lactate, Cellulose Gum, Artificial Sweetener: Acesulfame Potassium, L-Carnitine, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride 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)

Juicy Orange flavored version also contains: Orange Juice from Concentrate (45.5%), Corn Syrup Solids, and less than 2% of the following: Natural Flavor, Artificial Sweetener: Sucralose.

Mixed Berry Blast flavored version also contains: Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), and less than 2% of the following: Elderberry Juice from Concentrate (0.6%), Natural Flavor, Concentrate (Apple, Blackcurrant, Radish), Artificial Sweetener: Sucralose.

Juicy Tropical flavored version also contains: Orange Juice from Concentrate (18%), Mango Puree from Concentrate (6.4%), Mandarin Juice from Concentrate (4.0%), Corn Syrup Solids, and less than 2% of the following: Artificial Flavor.

Juicy Orange contains 45.5% juice.
Mixed Berry Blast contains 44.1% juice.
Juicy Tropical contains 28.4% juice.

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



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
- Lophlex provides 10 g of protein equivalent per sachet
- Available in berry and orange flavors
- Osmolality (mOsm/kg):

Dilution	Orange	Berry
1 to 5	1390	1340

Indications:

- Phenylketonuria

For details on administration, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Sachet
12169 - Berry	49735-0121-69	B4157 or B4162	30 x 14.3 g (0.5 oz)	42
12167 - Orange	49735-0121-67	B4157 or B4162	30 x 14.3 g (0.5 oz)	42

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per sachet (14.3 g)	Per 100 g	Vitamins	Per sachet (14.3 g)	Per 100 g
Calories	41	286	Vitamin A, IU (mcg R.E.)	557 (167)	3896 (1170)
Protein Equivalent, g	10	70	Vitamin D, IU (mcg)	82.9 (2.1)	580 (14.5)
Fat, g	0.03	0.2	Vitamin E, IU (mg α T.E.)	4.6 (3.1)	32 (21.5)
Carbohydrate, g	0.14	1	Vitamin K, mcg	20.4	143
Amino Acids, g			Thiamin, mg	0.23	1.6
L-Alanine	0.47	3.3	Riboflavin, mg	0.24	1.7
L-Arginine	0.83	5.8	Vitamin B ₆ , mg	0.4	2.8
L-Aspartic Acid	0.77	5.4	Vitamin B ₁₂ , mcg	0.79	5.5
L-Cystine	0.31	2.2	Niacin, mg	1.4	10
Glycine	0.73	5.1	Folic Acid, mcg	123	860
L-Histidine	0.47	3.3	Pantothenic Acid, mg	1.2	8.6
L-Isoleucine	0.73	5.1	Biotin, mcg	6.1	43
L-Leucine	1.24	8.7	Vitamin C, mg	15.7	110
L-Lysine	0.84	5.9	Choline, mg	103	720
L-Methionine	0.20	1.4	Inositol, mg	20	140
L-Phenylalanine	None	None	Minerals		
L-Proline	0.89	6.2	Calcium, mg	296	2070
L-Serine	0.54	3.8	Phosphorus, mg	285	1990
L-Threonine	0.61	4.3	Magnesium, mg	76.5	535
L-Tryptophan	0.24	1.7	Iron, mg	3.7	25.7
L-Tyrosine	1.12	7.8	Zinc, mg	2.3	15.8
L-Valine	0.80	5.6	Manganese, mg	0.44	3.1
L-Carnitine	0.01	0.06	Copper, mcg	204	1430
Taurine	0.02	0.11	Iodine, mcg	32.7	229
L-Glutamine	0.56	3.95	Molybdenum, mcg	9.3	65
			Chromium, mcg	6.6	46
			Selenium, mcg	14.4	101
			Sodium, mg (mEq)	<3 (<1)	<20 (<1)
			Potassium, mg (mEq)	<6 (<1)	<40 (<1)
			Chloride, mg (mEq)	<1 (<1)	<1 (<1)

Ingredients:

Berry: L-Leucine, L-Tyrosine, L-Proline, L-Lysine, L-Arginine, L-Valine, Tricalcium Phosphate, L-Aspartic Acid, Glycine, L-Isoleucine, L-Threonine, Magnesium Hydrogen Phosphate, L-Glutamine, L-Serine, L-Histidine, L-Alanine, Citric Acid, L-Cystine, Choline Bitartrate, and 2% or less of each of the following: L-Tryptophan, Calcium Phosphate, L-Methionine, 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, Copper Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Color (Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.

Orange flavored version also contains: 2% or less of Artificial Color (Beta Carotene).



Phlexy-10[®] System

An interchangeable system of phenylalanine-free medical foods for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age, including pregnant women and women of child-bearing age.

Main Features:

- Phenylalanine-free
- Available as Phlexy-10 Drink Mix (black currant/apple or tropical surprise flavor), Phlexy-10 Tablets and Phlexy-10 Capsules
- Each unit (one drink mix sachet, 10 tablets or 20 capsules) provides 10 g of amino acids, equivalent to 8.33 g of protein
- Weighing no longer necessary
- Osmolality (mOsm/kg):

Dilution	Blackcurrant/ Apple	Tropical Surprise
1 to 5	1172	1140

Indications:

- Phenylketonuria

For details on administration, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories
11467 - Drink Mix (Blackcurrant/Apple)	49735-0114-67	B4157 or B4162	30 x 20 g (0.7 oz)	69/sachet
11910 - Drink Mix (Tropical Surprise)	49735-0119-10	B4157 or B4162	30 x 20 g (0.7 oz)	69/sachet
11809 - Capsules	49735-0118-09	A9270	200/bottle	330/bottle
11951 - Tablets	49735-0119-51	A9270	75/bottle	285/bottle

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Phlexy-10 Drink Mix	Phlexy-10 Capsules	Phlexy-10 Tablets
	(Per 20 g sachet)	(Per 20 capsules)	(Per 10 tablets)
Calories	69	33	38
Protein Equivalent, g	8.33	8.33	8.33
Fat, g	None	None	0.2
Saturated, g	None	None	0.19
Monounsaturated, g	None	None	None
Polyunsaturated, g	None	None	None
Carbohydrate, g	8.8	None	0.65
Dietary Fiber, g	None	1.6	3
Amino Acids, g			
L-Alanine	0.41	0.41	0.41
L-Arginine	0.72	0.72	0.72
L-Aspartic Acid	0.68	0.68	0.68
L-Cystine	0.27	0.27	0.27
Glycine	0.64	0.64	0.64
L-Histidine	0.41	0.41	0.41
L-Isoleucine	0.64	0.64	0.64
L-Leucine	1.09	1.09	1.09
L-Lysine	0.74	0.74	0.74
L-Methionine	0.17	0.17	0.17
L-Phenylalanine	None	Negligible*	None
L-Proline	0.77	0.77	0.77
L-Serine	0.47	0.47	0.47
L-Threonine	0.54	0.54	0.54
L-Tryptophan	0.22	0.22	0.22
L-Tyrosine	0.97	0.97	0.97
L-Valine	0.7	0.7	0.7
L-Carnitine	0.007	0.007	0.007
Taurine	0.014	0.014	0.014
L-Glutamine	0.5	0.5	0.5

* A negligible amount of phenylalanine is present in the cellulose capsules: <0.2 mg per 20 caps

Ingredients:

Phlexy-10 Drink Mix (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, Artificial Sweetener: Acesulfame Potassium, Artificial Color.

Phlexy-10 Drink Mix (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, Artificial Sweetener: Acesulfame Potassium, Taurine, L-Carnitine, Artificial Color.

Phlexy-10 Capsules:

Cellulose, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, L-Valine, L-Isoleucine, Glycine, L-Threonine, L-Glutamine, L-Serine, L-Histidine, L-Alanine, L-Cystine, N-Acetyl L-Methionine, L-Tryptophan, Taurine, L-Carnitine.

Phlexy-10 Tablets:

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



Lanaflex®

A 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.

Main Features:

- Phenylalanine-free
- Contains lysine and other large neutral amino acids
- Contains carbohydrate, vitamins, minerals and trace elements
- One sachet of Lanaflex provides 6 g of amino acids equivalent to 5.2 g of protein
- Available in orange flavor
- Osmolality (at a 1 to 4 dilution): 1350 mOsm/kg

Precautions:

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

Indications:

- Phenylketonuria

For details on administration, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Sachet
12643	49735-0126-43	B4157	40 x 15.8 g (0.6 oz)	40

Nutrition Information:

Nutrients	Per Sachet (15.8 g)		Minerals	Per Sachet (15.8 g)	
	Per Sachet (15.8 g)	Per 100 g		Per Sachet (15.8 g)	Per 100 g
Calories	40	253	Calcium, mg	474	2998
Protein Equivalent, g	5.2	33	Phosphorus, mg	456	2888
Fat, g	0.16	1	Magnesium, mg	122	775
Carbohydrate, g	4.4	28	Iron, mg	5.9	37.6
Amino Acids, g			Zinc, mg	3.7	23.2
L-Histidine	0.92	5.85	Manganese, mg	0.73	4.6
L-Isoleucine	0.46	2.92	Copper, mcg	332	2100
L-Leucine	0.46	2.92	Iodine, mcg	52.3	331
L-Lysine	0.46	2.92	Molybdenum, mcg	14.9	94.2
L-Methionine	0.92	5.85	Chromium, mcg	10.6	66.9
L-Threonine	0.46	2.92	Selenium, mcg	23.1	146
L-Tryptophan	0.92	5.85	Sodium, mg (mEq)	4.9 (0.21)	31 (1.3)
L-Tyrosine	0.92	5.85	Potassium, mg (mEq)	3.5 (0.09)	22 (0.56)
L-Valine	0.46	2.92	Chloride, mg (mEq)	0.25 (0.008)	1.6 (0.05)
Vitamins					
Vitamin A IU, (mcg R.E.)	892 (268)	5644 (1695)			
Vitamin D IU, (mcg R.E.)	135 (3.4)	852 (21.3)			
Vitamin E IU, (mg α T.E.)	7.4 (5)	46.9 (31.5)			
Vitamin K, mcg	32.7	207			
Thiamin, mg	0.36	2.3			
Riboflavin, mg	0.38	2.4			
Vitamin B ₆ , mg	0.65	4.1			
Vitamin B ₁₂ , mcg	1.3	8			
Niacin, mg	2.2	14.2			
Folic Acid, mcg	197	1246			
Pantothenic Acid, mg	1.9	12.2			
Biotin, mcg	9.8	61.9			
Vitamin C, mg	25.1	159			
Choline, mg	165	1045			
Inositol, mg	32.1	203			

Ingredients:

Sugar, Calcium Phosphate, Artificial Flavors, L-Histidine, L-Tryptophan, L-Tyrosine, Tricalcium Phosphate, Magnesium Acetate, L-Lysine Acetate, N-Acetyl-L-Methionine, L-Leucine, L-Methionine, L-Threonine, L-Valine, L-Isoleucine, Choline Bitartrate, Guar Gum, Soy Lecithin, Citric Acid, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, Artificial Sweetener (Acesulfame Potassium), DL-Alpha-Tocopheryl Acetate, Zinc Sulfate, Nicotinamide, Manganese Sulfate, Calcium-D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Color (Beta Carotene), Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Cholecalciferol, Cyanocobalamin.

Visit NutriciaLearningCenter.com for guidelines on the usage of Lanaflex



Milupa PKU 2

A powdered medical food containing a mixture of pure L-amino acids free from phenylalanine, and enriched with vitamins, minerals and trace elements. For the dietary management of phenylketonuria (PKU) in children.

Main Features:

- Phenylalanine-free
- Concentrated, unflavored powder
- Enriched with vitamins, minerals and trace elements
- Osmolality (at a 1 to 9 dilution): 790 mOsm/kg

Indications:

- Phenylketonuria

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
659346	81361-0934-60	B4155	2 x 500 g (17.6 oz)	1450

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	293	44	Vitamin A, IU (mcg R.E.)	5200 (1562)	776 (234)
Protein Equivalent, g	67	10	Vitamin D, IU (mcg)	1310 (33)	196 (5)
Fat, g	None	None	Vitamin E, IU (mg α T.E.)	18 (12)	2.7 (1.8)
Carbohydrate, g	6.2	0.9	Vitamin K, mcg	167	25
Amino Acids, g			Thiamin, mg	1.4	0.2
L-Alanine	3.1	0.46	Riboflavin, mg	2	0.3
L-Arginine	2.7	0.40	Vitamin B ₆ , mg	1.5	0.2
L-Aspartic Acid	7.6	1.13	Vitamin B ₁₂ , mcg	3	0.4
L-Cystine	1.8	0.27	Niacin, mg	24	4
L-Glutamic Acid	16.0	2.39	Folic Acid, mcg	400	60
L-Glycine	1.8	0.27	Pantothenic Acid, mg	11	2
L-Histidine	1.8	0.27	Biotin, mcg	300	45
L-Isoleucine	4.5	0.67	Vitamin C, mg	80	12
L-Leucine	7.6	1.13	Choline, mg	260	39
L-Lysine	5.4	0.81	Inositol, mg	300	45
L-Methionine	1.8	0.27	Minerals		
L-Phenylalanine	None	None	Calcium, mg	1310	196
L-Proline	7.1	1.06	Phosphorus, mg	1010	151
L-Serine	4.0	0.60	Magnesium, mg	156	23
L-Threonine	3.6	0.54	Iron, mg	15	2.2
L-Tryptophan	1.4	0.21	Zinc, mg	8	1.2
L-Tyrosine	4.5	0.67	Manganese, mg	0.7	0.1
L-Valine	5.4	0.81	Copper, mcg	2000	299
			Iodine, mcg	120	18
			Molybdenum, mcg	32	5
			Sodium, mg	640	96
			Potassium, mg	1330	199
			Chloride, mg	990	148

Ingredients:

L-Amino Acids (L-Lysine-L-Glutamate, L-Glutamic Acid, L-Leucine, L-Proline, L-Aspartic Acid, L-Valine, L-Isoleucine, L-Tyrosine, L-Serine, L-Threonine, L-Alanine, L-Arginine, Magnesium-L-Aspartate, L-Histidine, L-Methionine, L-Cystine, Glycine, L-Tryptophan), Sugar, Potassium Phosphate, Calcium Phosphate, Calcium Carbonate, Salt, Choline Bitartrate, M-Inositol, Ascorbic Acid, Ferrous Sulfate, Vanillin, Niacinamide, Vitamin E Acetate, Zinc Sulfate, Calcium-D-Pantothenate, Copper Acetate, Pyridoxine Hydrochloride, Thiamin Hydrochloride, Riboflavin, Manganese Sulfate, Vitamin A Acetate, Biotin, Folic Acid, Potassium Iodide, Vitamin K₁, Ammonium Heptamolybdate, Vitamin D₃, Vitamin B₁₂.



Milupa PKU 3

A powdered medical food containing a mixture of pure L-amino acids free from phenylalanine, enriched with vitamins, minerals and trace elements. 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
- Concentrated, unflavored powder
- Enriched with vitamins, minerals and trace elements
- Osmolality (at a 1 to 9 dilution): 800 mOsm/kg

Indications:

- Phenylketonuria (PKU)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
659347	81361-0934-70	B4155	2 x 500 g cans	1400

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	279	41	Vitamin A, IU (mcg R.E.)	4000 (1201)	588 (177)
Protein Equivalent, g	68	10	Vitamin D, IU (mcg)	480 (12)	71 (1.8)
Fat, g	None	None	Vitamin E, IU (mg α T.E.)	12 (8)	2 (1.18)
Carbohydrate, g	1.7	0.3	Vitamin K, mcg	167	25
Amino Acids, g			Thiamin, mg	1.8	0.3
L-Alanine	3.1	0.46	Riboflavin, mg	1.8	0.3
L-Arginine	2.7	0.40	Vitamin B ₆ , mg	3.2	0.5
L-Aspartic Acid	7.6	1.12	Vitamin B ₁₂ , mcg	5	0.7
L-Cystine	1.8	0.26	Niacin, mg	18	2.6
L-Glutamic Acid	16.0	2.4	Folic Acid, mcg	950	140
Glycine	1.8	0.26	Pantothenic Acid, mg	8.3	1.2
L-Histidine	1.8	0.26	Biotin, mcg	179	26
L-Isoleucine	4.5	0.66	Vitamin C, mg	100	15
L-Leucine	7.6	1.12	Choline, mg	260	38
L-Lysine	5.4	0.79	Inositol, mg	300	44
L-Methionine	1.8	0.26	Minerals		
L-Phenylalanine	None	None	Calcium, mg	1310	193
L-Proline	7.1	1.04	Phosphorus, mg	1010	149
L-Serine	4.0	0.6	Magnesium, mg	540	79
L-Threonine	3.6	0.53	Iron, mg	21	3.1
L-Tryptophan	1.4	0.21	Zinc, mg	24	3.5
L-Tyrosine	6.0	0.88	Manganese, mg	4.8	0.7
L-Valine	5.4	0.79	Copper, mcg	3600	529
			Iodine, mcg	143	21
			Molybdenum, mcg	480	71
			Sodium, mg	640	94
			Potassium, mg	1330	196
			Chloride, mg	1000	147

Ingredients:

L-Amino Acids (L-Lysine-L-Glutamate, L-Glutamic Acid, L-Leucine, L-Proline, L-Tyrosine, L-Aspartic Acid, L-Valine, L-Isoleucine, L-Serine, L-Threonine, L-Alanine, L-Arginine, Magnesium-L-Aspartate, L-Histidine, L-Methionine, L-Cystine, Glycine, L-Tryptophan), Sugar, Potassium Phosphate, Magnesium Sulfate, Calcium Phosphate, Calcium Carbonate, Salt, Choline Bitartrate, M-Inositol, Ascorbic Acid, Ferrous Sulfate, Zinc Sulfate, Vanillin, Niacinamide, Vitamin E Acetate, Calcium-D-Pantothenate, Manganese Sulfate, Copper Acetate, Pyridoxine Hydrochloride, Thiamin Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Ammonium Heptamolybdate, Biotin, Potassium Iodide, Vitamin K₁, Vitamin D₃, Vitamin B₁₂.



MSUD Analog™

An isoleucine-, leucine- and valine-free powdered infant formula for the dietary management of maple syrup urine disease (MSUD).



Coming in 2015:
MSUD Anamix®
Early Years

Main Features:

- Isoleucine-, leucine- and valine-free
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- MSUD Analog provides 13 g of protein equivalent per 100 g of powder
- Osmolality (at 15% w/v): 377 mOsm/kg

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
118302	49735-0183-02	B4162	6 x 400 g (14 oz)	1900

WIC+ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g Protein Equivalent		Vitamins	Per 10 g Protein Equivalent	
	Per 100 g	Per 10 g		Per 100 g	Per 10 g
Calories	475	365	Vitamin A, IU (mcg R.E.)	1760 (528)	1355 (406)
Protein Equivalent, g	13	10	Vitamin D, IU (mcg)	340 (8.5)	262 (6.5)
Fat, g	20.9	16	Vitamin E, IU (mg α T.E.)	4.9 (3.3)	3.8 (2.5)
Saturated, g	6.8	5.2	Vitamin K, mcg	21	16
Monounsaturated, g	9.5	7.3	Thiamin, mcg	500	385
Polyunsaturated, g	3.6	2.8	Riboflavin, mcg	600	462
Linoleic Acid, mg	3025	2330	Vitamin B ₆ , mcg	520	400
Carbohydrate, g	59	45	Vitamin B ₁₂ , mcg	1.25	0.96
Amino Acids, g			Niacin, mcg	4500	3462
L-Alanine	0.76	0.58	Folic Acid, mcg	38	29
L-Arginine	1.34	1.03	Pantothenic Acid, mcg	2600	2000
L-Aspartic Acid	1.11	0.85	Biotin, mcg	26	20
L-Cystine	0.49	0.38	Vitamin C, mg	40	31
L-Glutamic Acid	1.49	1.15	Choline, mg	50	38
Glycine	1.19	0.92	Inositol, mg	100	77
L-Histidine	0.76	0.58	Minerals		
L-Isoleucine	None	None	Calcium, mg	600	462
L-Leucine	None	None	Phosphorus, mg	500	385
L-Lysine	1.38	1.06	Magnesium, mg	40	31
L-Methionine	0.32	0.25	Iron, mg	10	8
L-Phenylalanine	0.90	0.69	Zinc, mg	8	6
L-Proline	1.44	1.11	Manganese, mcg	600	462
L-Serine	0.89	0.68	Copper, mcg	450	346
L-Threonine	1.00	0.77	Iodine, mcg	47	36
L-Tryptophan	0.40	0.31	Molybdenum, mcg	15	12
L-Tyrosine	0.90	0.69	Chromium, mcg	15	12
L-Valine	None	None	Selenium, mcg	15	12
L-Carnitine	0.01	0.01	Sodium, mg (mEq)	120 (5.2)	92 (4.0)
Taurine	0.02	0.02	Potassium, mg (mEq)	420 (10.8)	323 (8.3)
L-Glutamine	0.1	0.08	Chloride, mg (mEq)	290 (8.2)	223 (6.3)

Ingredients:

Corn Syrup Solids, High Oleic Safflower Oil, Refined Vegetable Oil (Coconut, Soy), L-Lysine L-Glutamate, Calcium Phosphate Dibasic, L-Proline, L-Arginine, Glycine, L-Aspartic Acid, L-Threonine, L-Phenylalanine, L-Tyrosine, Galactose, L-Serine, Tripotassium Citrate, L-Histidine, L-Alanine, Calcium Phosphate Monobasic, Mono and Diglycerides, L-Cystine, L-Tryptophan, L-Methionine, Sodium Chloride, Magnesium Acetate, Potassium Chloride, Diacetyl Tartaric Acid Esters of Monoglycerides, Tricalcium Citrate, L-Glutamine, Choline Bitartrate, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Soy Lecithin, Calcium Phosphate Tribasic, Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Nicotinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Manganese Sulfate, Cupric Sulfate, Vitamin A Acetate, Pyridoxine Hydrochloride, Riboflavin, Thiamin Chloride Hydrochloride, Chromium Sulfate, Potassium Iodide, Folic Acid, Sodium Molybdate, Phylloquinone, D-Biotin, Sodium Hydrogen Selenite, Vitamin D₃, Cyanocobalamin.



MSUD Maxamaid®

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

Main Features:

- Isoleucine-, leucine- and valine-free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- MSUD Maxamaid provides 25 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

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117781	49735-0177-81	B4162	6 x 454 g (1 lb)	1471

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g		Vitamins	Per 100 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	324	130	Vitamin A, IU (mcg R.E.)	1665 (500)	666 (200)
Protein Equivalent, g	25	10	Vitamin D, IU (mcg)	480 (12)	192 (4.8)
Fat, g	<0.1	0.04	Vitamin E, IU (mg α.T.E.)	14.3 (9.6)	5.7 (3.8)
Carbohydrate, g	56	22	Vitamin K, mcg	48	19
Amino Acids, g			Thiamin, mg	0.8	0.3
L-Alanine	1.48	0.59	Riboflavin, mg	0.8	0.3
L-Arginine	2.60	1.04	Vitamin B ₆ , mg	0.8	0.3
L-Aspartic Acid	2.17	0.87	Vitamin B ₁₂ , mcg	2	0.8
L-Cystine	0.96	0.38	Niacin, mg	5	2
Glycine	2.31	0.92	Folic Acid, mcg	240	96
L-Histidine	1.49	0.60	Pantothenic Acid, mg	3.2	1.3
L-Isoleucine	None	None	Biotin, mcg	18	7.2
L-Leucine	None	None	Vitamin C, mg	62.5	25
L-Lysine	2.69	1.08	Choline, mg	250	100
L-Methionine	0.63	0.25	Inositol, mg	56	22
L-Phenylalanine	1.75	0.70	Minerals		
L-Proline	2.81	1.12	Calcium, mg	810	324
L-Serine	1.73	0.69	Phosphorus, mg	810	324
L-Threonine	1.94	0.78	Magnesium, mg	128	51
L-Tryptophan	0.77	0.31	Iron, mg	14	5.6
L-Tyrosine	1.75	0.70	Zinc, mg	11	4.4
L-Valine	None	None	Manganese, mg	1.9	0.8
L-Carnitine	0.02	0.01	Copper, mcg	1000	400
Taurine	0.14	0.06	Iodine, mcg	144	58
L-Glutamine	1.5	0.60	Molybdenum, mcg	33	13
			Chromium, mcg	21.5	8.6
			Selenium, mcg	40	16
			Sodium, mg (mEq)	580 (25.2)	232 (10)
			Potassium, mg (mEq)	840 (21.5)	336 (8.6)
			Chloride, mg (mEq)	450 (12.9)	180 (5.2)

Ingredients:

Sugar, Corn Syrup Solids, L-Arginine L-Aspartate, L-Lysine Acetate, Calcium Phosphate Dibasic, Citric Acid, L-Proline, Tripotassium Citrate, Glycine, L-Threonine, L-Glutamine, L-Phenylalanine, L-Tyrosine, L-Serine, Artificial Flavors, L-Histidine, L-Alanine, Maltodextrin, Disodium Hydrogen Phosphate, L-Cystine, Sodium Chloride, N-Acetyl L-Methionine, L-Tryptophan, Magnesium Acetate, Choline Bitartrate, Magnesium L-Aspartate, Taurine, L-Ascorbic Acid, Tricalcium Phosphate, M-Inositol, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Artificial Colors (Beta-Carotene, Beet Red), Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



MSUD Maxamum®

An isoleucine-, leucine- and valine-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:

- Isoleucine-, leucine- and valine-free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- MSUD Maxamum 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

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117789	49735-0177-89	B4157 or B4162	6 x 454 g (1 lb)	1385

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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 R.E.)	2228 (669)	557 (167)
Protein Equivalent, g	40	10	Vitamin D, IU (mcg)	332 (8.3)	83 (2.1)
Fat, g	<1	<0.25	Vitamin E, IU (mg α T.E.)	18.3 (12.3)	4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82	21
Amino Acids, g			Thiamin, mg	0.91	0.23
L-Alanine	2.4	0.60	Riboflavin, mg	0.97	0.24
L-Arginine	4.1	1.03	Vitamin B ₆ , mg	1.6	0.4
L-Aspartic Acid	3.4	0.85	Vitamin B ₁₂ , mcg	3.1	0.8
L-Cystine	1.6	0.40	Niacin, mg	5.7	1.4
L-Glutamic Acid	4.6	1.15	Folic Acid, mcg	491	123
Glycine	3.7	0.93	Pantothenic Acid, mg	4.9	1.2
L-Histidine	2.3	0.58	Biotin, mcg	24.5	6.1
L-Isoleucine	None	None	Vitamin C, mg	62	16
L-Leucine	None	None	Choline, mg	430	108
L-Lysine	4.2	1.05	Inositol, mg	80	20
L-Methionine	0.99	0.25	Minerals		
L-Phenylalanine	2.8	0.70	Calcium, mg	1183	296
L-Proline	4.5	1.13	Phosphorus, mg	1137	284
L-Serine	2.8	0.70	Magnesium, mg	306	77
L-Threonine	3.1	0.78	Iron, mg	14.7	3.7
L-Tryptophan	1.3	0.33	Zinc, mg	9	2
L-Tyrosine	2.8	0.70	Manganese, mg	1.8	0.5
L-Valine	None	None	Copper, mcg	820	205
L-Carnitine	0.039	0.01	Iodine, mcg	131	33
Taurine	0.14	0.04	Molybdenum, mcg	37	9
L-Glutamine	0.32	0.08	Chromium, mcg	26	7
			Selenium, mcg	58	15
			Sodium, mg (mEq)	560 (24.3)	140 (6.1)
			Potassium, mg (mEq)	700 (17.9)	175 (4.5)
			Chloride, mg (mEq)	560 (16)	140 (4)

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, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



MSUD Lophlex[®] LQ

An isoleucine-, leucine- and valine-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 proven maple syrup urine disease (MSUD) in individuals 4 years and older, including pregnant women and women of child-bearing age.

Main Features:

- Isoleucine-, leucine- and valine-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
- Provides 150 mg DHA per pouch
- Available in mixed berry blast flavor
- Osmolality: 2460 mOsm/kg

Indications:

- Maple syrup urine disease (MSUD)

For details on administration, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Pouch
66749	49735-016749	B4157 or B4162	30 X 4.2 fl oz (125 mL)	120

WIC⁺ eligible in all States. For more reimbursement information see page 227.

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	120.0	60.0	Vitamin A, IU (mcg R.E.)	949 (285)	475 (143)
Protein Equivalent, g	20.0	10.0	Vitamin D, IU (mcg)	320 (8.0)	160 (4.0)
Fat, g	0.44	0.22	Vitamin E, IU (mg α.T.E.)	4.8 (3.2)	2.4 (1.6)
DHA, mg	150	75.0	Vitamin K, mcg	24.9	12.5
Carbohydrate, g	9.3	4.7	Thiamin, 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	1.40	0.70	Vitamin B ₁₂ , mcg	1.8	0.90
L-Arginine	1.90	0.95	Niacin, mg	7.1	3.6
L-Aspartic Acid	1.45	0.73	Folic Acid, mcg	120	60.0
L-Cystine	1.20	0.60	Pantothenic Acid, mg	1.8	0.9
Glycine	1.90	0.95	Biotin, mcg	53.4	26.7
L-Histidine	1.00	0.50	Vitamin C, mg	17.8	8.9
L-Isoleucine	None	None	Choline, mg	153	76.5
L-Leucine	None	None	Inositol, mg	40.6	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	None	None	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 (mmol)	<25.0 (<10)	<12.5 (<5)
			Potassium, mg (mmol)	90 (2.3)	45 (1.2)
			Chloride, mg (mmol)	<25.0 (<10)	<12.5 (<5)

Ingredients:

Water, Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from 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 from Concentrate (0.6%), Maltodextrin, Magnesium Acetate, N-Acetyl L-Methionine, L-Tryptophan, Choline Bitartrate, C. Cohnii Oil*, Sugar, Microcrystalline Cellulose, Natural Flavor, Fruit Concentrate (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Taurine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Artificial Sweetener: Sucralose, Ferrous Lactate, Artificial Sweetener: Acesulfame Potassium, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, L-Carnitine, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride 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)

Contains 44.1% juice.



Complex Junior MSD Drink Mix

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

Main Features:

- Free from isoleucine, leucine and valine
- 13 g of protein equivalent per 100 g of powder
- DHA & ARA to provide an additional source for young children with MSUD
- Mild neutral flavor
- Essential vitamins and minerals to help meet needs of young children with MSUD

Indications:

- Maple syrup urine disease (MSUD) or Beta-ketothiolase deficiency

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
5910	00847-0591-02	B4157 or B4162	4 x 400 g (14.1 oz)	1976

WIC⁺ eligible in all States. For more reimbursement information see page 227.

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

Nutrition Information:

Nutrients	Per 100 g Powder	Per 100 kcal	Vitamins	Per 100 g Powder	Per 100 kcal
Calories	494	100	Vitamin A, IU (mcg R.E.) (25% as beta-carotene)	1187 (356)	240 (72)
Protein Equivalent, g	13	2.6	Vitamin D, IU (mcg)	429 (10.7)	87 (2.2)
Carbohydrate, g	46	9	Vitamin E, IU (mg α T.E.)	13.8 (9.2)	2.8 (1.9)
Fat, g	29	6	Vitamin K, mcg	62	12.6
Saturated Fat, g	8.3	1.7	Thiamin, mg	1.1	0.22
Monounsaturated Fat, g	14.7	3	Riboflavin, mg	0.81	0.16
Polyunsaturated Fat, g	5.1	1	Vitamin B ₆ , mg	0.78	0.16
Linoleic Acid, mg	4296	870	Vitamin B ₁₂ , mcg	2	0.4
DHA, mg	88	17.9	Niacin, mg	5.8	1.2
ARA, mg	88	17.9	Folic Acid, mcg	140	28
Amino Acids, g			Pantothenic Acid, mg	3.4	0.69
L-Alanine	1.40	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	None	None	Iron, mg	14.7	3
L-Leucine	None	None	Zinc, mg	29	5.8
L-Lysine	1.17	0.24	Manganese, mg	0.44	0.09
L-Methionine	0.38	0.08	Copper, mg	0.95	0.19
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	None	None	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, 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, Silica, L-Cystine, C. Cohnii 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, Niacinamide, Vitamin A Palmitate, Vitamin D₃, D-Calcium Pantothenate, D-Biotin, Copper Sulfate, Manganese Sulfate, Thiamin Hydrochloride, Potassium Iodide, Pyridoxine Hydrochloride, Sodium Selenite, Riboflavin, Vitamin B₁₂, Folic Acid, Chromium Chloride and Sodium Molybdate.



Complex Essential MSD Drink Mix

An isoleucine-, leucine-, and valine-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:

- Free from isoleucine, leucine and valine
- Vanilla flavor
- Complete with essential vitamins and minerals
- Low in saturated fat
- 1.5 g of soluble fiber per serving
- Provides 25 g of protein equivalent per 100 g of powder
- Contains a 4:1 ratio of Omega-6 to Omega-3
- Osmolality (mOsm/kg): 813
Based on standard dilution of 40 g powder to 7 fl oz water (210 mL)

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
5972	00847-0597-22	B4157 or B4162	4 x 454 g (1 lb)	1725

WIC⁺ eligible in all States. For more reimbursement information see page 227.

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

Nutrition Information:

Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 scoop)	Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 scoop)
Calories	380	152	Vitamin A, IU (mcg R.E.) (25% as beta-carotene)	1700 (637)	680 (255)
Protein Equivalent, g	25	10	Vitamin D, IU (mcg)	600 (15)	240 (6)
Carbohydrate, g	47	19	Vitamin E, IU (mg α T.E.)	18.4 (12.3)	7.3 (4.9)
Soluble Fiber, g	3.9	1.5	Vitamin K, mcg	50	20
Fat, g	12	5	Thiamin, mg	1.5	0.6
Saturated Fat, g	2.1	0.85	Riboflavin, mg	1.5	0.6
Monounsaturated Fat, g	6.8	2.7	Vitamin B ₆ , mg	1.3	0.52
Polyunsaturated Fat, g	2.6	1	Vitamin B ₁₂ , mcg	2	0.8
Linoleic Acid, mg	1871	748	Niacin, mg	12	4.8
α-Linolenic Acid, mg	493	197	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	None	None	Iron, mg	13	5
L-Leucine	None	None	Zinc, mg	12	4.8
L-Lysine	2.27	0.91	Manganese, mg	1.5	0.6
L-Methionine	0.74	0.30	Copper, mg	1	0.4
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	None	None	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 Flavor, Tricalcium Phosphate, Potassium Citrate, L-Phenylalanine, L-Tyrosine, 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, Mono –and Diglycerides, D-Biotin, D-Calcium 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, Thiamin Mononitrate, Folic Acid, Sodium Molybdate and Vitamin B₁₂.



Complex MSD Amino Acid Blend

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

Main Features:

- An isoleucine-, leucine- and valine-free powder
- Unflavored
- Fat-free and sugar-free
- Only 40 calories per serving
- Provides 81 g of protein equivalent per 100 g of powder
- Available in cans

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
5900	00847-0590-00	B4155 or B9998	4 x 454 g (1 lb)	1466

WIC⁺ eligible in all States. For more reimbursement information see page 227.

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

Nutrition Information:

Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 scoop)	Amino Acids, g	Per 100 g Powder	Per 10 g Protein Equivalent
Calories	323	40	L-Alanine	8.72	1.08
Protein Equivalent, g	81	10	L-Arginine	4.13	0.51
Carbohydrate, g	0	0	L-Asparagine	4.67	0.58
Fat, g	0	0	L-Cystine	1.80	0.22
			L-Glutamic Acid	2.79	0.35
			L-Glutamine	23.12	2.87
			Glycine	2.16	0.27
			L-Histidine	5.76	0.71
			L-Isoleucine	None	None
			L-Leucine	None	None
			L-Lysine	7.32	0.91
			L-Methionine	2.38	0.30
			L-Phenylalanine	7.08	0.88
			L-Proline	4.76	0.59
			L-Serine	3.60	0.45
			L-Threonine	5.83	0.72
			L-Tryptophan	4.28	0.53
			L-Tyrosine	7.08	0.88
			L-Valine	None	None
			L-Carnitine	0.19	0.02
			Taurine	0.46	0.06

Ingredients:

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

Note: Must combine with an appropriate vitamin & mineral supplement when taken as the sole source of amino acid protein.



Complex MSD Amino Acid Bars

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

Main Features:

- An isoleucine-, leucine- and valine-free bar
- Great tasting chocolate flavor (artificially flavored)
- An alternative to liquid MSUD formula
- 1 bar provides 10 g of protein equivalent

Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Bar
5980	00847-0598-06	A9270 or B9998	12 x 47 g (1.66 oz)	262

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

Nutrition Information:

Nutrients	Per 100 g		Amino Acids, g	Per 100 g	
	Powder	Protein Equivalent		Powder	Protein Equivalent
Calories	558	262	L-Alanine	2.31	1.08
Protein Equivalent, g	21	10	L-Arginine	1.09	0.51
Carbohydrate, g	34	16	L-Asparagine	1.23	0.58
Sugars, g	33	16	L-Cystine	0.48	0.22
Fat, g	39	18	L-Glutamic Acid	0.74	0.35
Saturated Fat, g	23	11	L-Glutamine	6.12	2.88
Monounsaturated Fat, g	13	6	Glycine	0.57	0.27
Polyunsaturated Fat, g	1	0.3	L-Histidine	1.52	0.72
Trans Fat, g	0	0	L-Isoleucine	None	None
			L-Leucine	None	None
			L-Lysine	1.94	0.91
			L-Methionine	0.63	0.30
			L-Phenylalanine	1.87	0.88
			L-Proline	1.26	0.59
			L-Serine	0.95	0.45
			L-Threonine	1.54	0.73
			L-Tryptophan	1.13	0.53
			L-Tyrosine	1.87	0.88
			L-Valine	None	None
			L-Carnitine	0.05	0.02
			Taurine	0.12	0.06

Ingredients:

Cocoa Butter, Sugar, Amino Acids (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, L-Carnitine), Artificial Color (Partially Hydrogenated Vegetable Oil, Red 40 Lake, Yellow 6 Lake, Blue 1 Lake, Soy Lecithin), Artificial Flavor and Soy Lecithin.

Contains Soy Ingredients.

Note: Must combine with an appropriate vitamin & mineral supplement when taken as the sole source of amino acid protein.



Milupa MSUD 2

A powdered medical food containing a mixture of pure L-amino acids free from isoleucine, leucine and valine, and enriched with vitamins, minerals and trace elements. For the dietary management of disorders of branched-chain amino acid metabolism in children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Isoleucine-, leucine- and valine-free
- Concentrated, unflavored powder
- Enriched with vitamins, minerals and trace elements
- Osmolality (at a 1 to 9 dilution): 700 mOsm/kg

Indications:

- Maple syrup urine disease (classic, inherited and intermittent forms)
- Hypervalinemia (isoleucine and leucine should be added)
- Alpha-Methylacetoacetic aciduria (leucine and valine should be added)
- Ketotic hypoglycemia (leucine induced, idiopathic form) (isoleucine and valine should be added)
- Hyperprolinemia type II, with hyperleucine-isoleucinemia (valine should be added)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
659351	81361-0935-10	B4155	2 x 500 g (17.6 oz)	1500

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g Protein Equivalent		Vitamins	Per 10 g Protein Equivalent	
	Per 100 g	Per 100 g		Per 100 g	Per 100 g
Calories	300	56	Vitamin A, IU (mcg R.E.)	5200 (1562)	963 (288)
Protein Equivalent, g	54	10	Vitamin D, IU (mcg)	1310 (32.8)	243 (6)
Fat, g	None	None	Vitamin E, IU (mg α T.E.)	18 (12)	3.3 (2.2)
Carbohydrate, g	21	3.9	Vitamin K, mcg	167	31
Amino Acids, g			Thiamin, mg	1.4	0.3
L-Alanine	3.1	0.57	Riboflavin, mg	2	0.4
L-Arginine	2.7	0.50	Vitamin B ₆ , mg	1.5	0.3
L-Aspartic Acid	7.6	1.41	Vitamin B ₁₂ , mcg	3	0.6
Cystine	1.8	0.33	Niacin, mg	24	4
L-Glutamic Acid	16.0	2.96	Folic Acid, mcg	400	74
Glycine	1.8	0.33	Pantothenic Acid, mg	11	2
L-Histidine	1.8	0.33	Biotin, mcg	300	56
L-Isoleucine	None	None	Vitamin C, mg	80	15
L-Leucine	None	None	Choline, mg	260	48
L-Lysine	5.4	1	Inositol, mg	300	56
L-Methionine	1.8	0.33	Minerals		
L-Phenylalanine	3.2	0.59	Calcium, mg	1310	243
L-Proline	7.1	1.31	Phosphorus, mg	1010	187
L-Serine	4.0	0.74	Magnesium, mg	156	29
L-Threonine	3.6	0.67	Iron, mg	15	2.8
L-Tryptophan	1.4	0.26	Zinc, mg	7.8	1.4
L-Tyrosine	3.9	0.72	Manganese, mg	0.7	0.1
L-Valine	None	None	Copper, mcg	2000	370
			Iodine, mcg	120	22
			Molybdenum, mcg	32	6
			Sodium, mg	640	119
			Potassium, mg	1330	246
			Chloride, mg	990	183

Ingredients:

L-Amino Acids (L-Lysine-L-Glutamate, L-Glutamic Acid, L-Proline, L-Aspartic Acid, L-Serine, L-Tyrosine, L-Threonine, L-Phenylalanine, L-Alanine, L-Arginine, Magnesium-L-Aspartate, L-Histidine, L-Methionine, L-Cystine, Glycine, L-Tryptophan), Sugar, Potassium Phosphate, Calcium Phosphate, Calcium Carbonate, Salt, Choline Bitartrate, M-Inositol, Ascorbic Acid, Ferrous Sulfate, Vanillin, Niacinamide, Vitamin E Acetate, Zinc Sulfate, Calcium-D-Pantothenate, Copper Acetate, Pyridoxine Hydrochloride, Thiamin Hydrochloride, Riboflavin, Manganese Sulfate, Vitamin A Acetate, Biotin, Folic Acid, Potassium Iodide, Vitamin K₁, Ammonium Heptamolybdate, Vitamin D₃, Vitamin B₁₂.



MSUD Aid

A leucine-, isoleucine-, valine-free powdered medical food for the dietary management of maple syrup urine disease in individuals over 1 year of age.

Main Features:

- Leucine-, isoleucine-, valine-free
- Contains a mixture of the other essential and non-essential amino acids, carbohydrate, and select vitamins, minerals and trace elements
- Unflavored powder
- MSUD Aid provides 60 g of protein equivalent per 100 g of powder
- Does not contain fat thereby allowing for greater flexibility in modifying energy intake

Indications:

- Maple syrup urine disease (MSUD)

For general guidance on administration, please follow instructions for Maxamaid or Maxamum brands on page 156.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
10143	49735-0101-43	-	4 x 200 g (7 oz)	500

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	250	42	Thiamin, mg	2.0	0.3
Protein Equivalent, g	60	10	Riboflavin, mg	2.5	0.4
Fat, g	0	0	Vitamin B ₆ , mg	2.0	0.3
Carbohydrate, g	3	0.5	Vitamin B ₁₂ , mcg	20	3.3
Amino Acids, g			Niacin, mg	25	4.2
L-Alanine	7.1	1.18	Folic Acid, mcg	400	67
L-Arginine	5.1	0.85	Pantothenic Acid, mcg	20	3.3
L-Aspartic Acid	12.1	2.02	Biotin, mcg	600	100
L-Cystine	2.1	0.35	Minerals		
L-Glutamic Acid	13.3	2.22	Calcium, mg	2500	417
Glycine	3.9	0.65	Phosphorus, mg	1500	250
L-Histidine	2.7	0.45	Magnesium, mg	300	50
L-Isoleucine	None	None	Iron, mg	25	4.2
L-Leucine	None	None	Zinc, mg	15	2.5
L-Lysine	7.1	1.18	Manganese, mg	3.5	0.58
L-Methionine	1.9	0.32	Copper, mcg	2500	417
L-Phenylalanine	3.8	0.63	Iodine, mcg	150	25
L-Proline	2.3	0.38	Sodium, mg (mEq)	1400 (60.9)	233 (10.2)
L-Serine	2.4	0.40	Potassium, mg (mEq)	2600 (66.7)	433 (11.1)
L-Threonine	3.3	0.55	Chloride, mg (mEq)	2800 (80)	467 (13.3)
L-Tryptophan	1.2	0.20			
L-Tyrosine	3.8	0.63			
L-Valine	None	None			

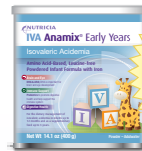
Ingredients:

L-Lysine L-Glutamate, L-Aspartic Acid, L-Alanine, Tripotassium Citrate, L-Glutamic Acid, Calcium Phosphate Dibasic, L-Arginine, Glycine, Sodium Chloride, L-Phenylalanine, L-Tyrosine, Calcium Phosphate Tribasic, L-Threonine, Hydrolyzed Cornstarch, L-Histidine, L-Serine, L-Proline, L-Cystine, L-Methionine, Magnesium, Acetate, L-Tryptophan, Potassium Chloride, Calcium Chloride, Ferrous Sulfate, Zinc Sulfate, Niacinamide, Calcium-D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Pyridoxine Hydrochloride, Riboflavin, Thiamin Hydrochloride, Biotin, Folic Acid, Potassium Iodide, Cyanocobalamin.



XLeu Analog™

A leucine-free powdered infant formula for the dietary management of isovaleric acidemia and other proven disorders of leucine metabolism.



Coming
in 2015:
IVA Anamix®
Early Years

Main Features:

- Leucine-free
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- XLeu Analog provides 13 g of protein equivalent per 100 g of powder
- Osmolality (at 15% w/v): 377 mOsm/kg

Indications:

- Isovaleric acidemia
- Other proven disorders of leucine metabolism

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
118361	49735-0183-61	B4162	6 x 400 g (14 oz)	1900

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	475	365	Vitamin A, IU (mcg R.E.)	1760 (528)	1356 (406)
Protein Equivalent, g	13	10	Vitamin D, IU (mcg)	340 (8.5)	262 (6.5)
Fat, g	20.9	16	Vitamin E, IU (mg α T.E.)	4.9 (3.3)	3.8 (2.5)
Saturated, g	6.8	5.2	Vitamin K, mcg	21	16
Monounsaturated, g	9.5	7.3	Thiamin, mcg	500	385
Polyunsaturated, g	3.6	2.8	Riboflavin, mcg	600	462
Linoleic Acid, mg	3025	2330	Vitamin B ₆ , mcg	520	400
Carbohydrate, g	59	45	Vitamin B ₁₂ , mcg	1.25	0.96
Amino Acids, g			Niacin, mcg	4500	3462
L-Alanine	0.6	0.46	Folic Acid, mcg	38	29
L-Arginine	1	0.77	Pantothenic Acid, mcg	2600	2000
L-Aspartic Acid	0.8	0.62	Biotin, mcg	26	20
L-Cystine	0.42	0.32	Vitamin C, mg	40	31
L-Glutamic Acid	1	0.77	Choline, mg	50	38
Glycine	2.05	1.58	Inositol, mg	100	77
L-Histidine	0.66	0.51	Minerals		
L-Isoleucine	0.49	0.38	Calcium, mg	600	462
L-Leucine	None	None	Phosphorus, mg	500	385
L-Lysine	1.18	0.91	Magnesium, mg	40	31
L-Methionine	0.28	0.22	Iron, mg	10	8
L-Phenylalanine	0.77	0.59	Zinc, mg	8	6
L-Proline	2	1.54	Manganese, mcg	600	462
L-Serine	0.6	0.46	Copper, mcg	450	346
L-Threonine	0.86	0.66	Iodine, mcg	47	36
L-Tryptophan	0.34	0.26	Molybdenum, mcg	15	12
L-Tyrosine	0.77	0.59	Chromium, mcg	15	12
L-Valine	0.55	0.42	Selenium, mcg	15	12
L-Carnitine	0.01	0.01	Sodium, mg (mEq)	120 (5.2)	92 (4.0)
Taurine	0.02	0.02	Potassium, mg (mEq)	420 (10.8)	323 (8.3)
L-Glutamine	0.1	0.08	Chloride, mg (mEq)	290 (8.2)	223 (6.3)

Ingredients:

Corn Syrup Solids, High Oleic Safflower Oil, Refined Vegetable Oil (Coconut, Soy), L-Lysine L-Glutamate, L-Proline, Glycine, Calcium Phosphate Dibasic, L-Arginine, L-Aspartic Acid, Galactose, Tripotassium Citrate, L-Phenylalanine, L-Tyrosine, L-Alanine, Calcium Phosphate Monobasic, L-Threonine, L-Histidine, L-Serine, Mono and Diglycerides, L-Valine, L-Cystine, L-Isoleucine, Sodium Chloride, L-Methionine, L-Glutamic Acid, L-Tryptophan, Magnesium Acetate, Potassium Chloride, Diacetyl Tartaric Acid Esters of Monoglycerides, Tricalcium Citrate, L-Glutamine, Choline Bitartrate, M-Inositol, L-Ascorbic Acid, Soy Lecithin, Calcium Phosphate Tribasic, Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Nicotinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Manganese Sulfate, Cupric Sulfate, Vitamin A Acetate, Pyridoxine Hydrochloride, Riboflavin, Thiamin Chloride Hydrochloride, Chromium Sulfate, Potassium Iodide, Folic Acid, Sodium Molybdate, Phylloquinone, D-Biotin, Sodium Hydrogen Selenite, Vitamin D₃, Cyanocobalamin.



XLeu Maxamaid®

A leucine-free powdered medical food for the dietary management of isovaleric acidemia and other proven disorders of leucine metabolism in toddlers and younger children.

Main Features:

- Leucine-free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XLeu Maxamaid provides 25 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

Indications:

- Isovaleric acidemia
- Other proven disorders of leucine metabolism

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117791	49735-0177-91	B4162	6 x 454 g (1 lb)	1471

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	324	130	Vitamin A, IU (mcg R.E.)	1665 (500)	666 (200)
Protein Equivalent, g	25	10	Vitamin D, IU (mcg)	480 (12)	192 (4.8)
Fat, g	<0.1	0.04	Vitamin E, IU (mg α T.E.)	14.3 (9.6)	5.7 (3.8)
Carbohydrate, g	56	22	Vitamin K, mcg	48	19
Amino Acids, g			Thiamin, mg	0.8	0.3
L-Alanine	1.36	0.54	Riboflavin, mg	0.8	0.3
L-Arginine	2.22	0.89	Vitamin B ₆ , mg	0.8	0.3
L-Aspartic Acid	1.87	0.75	Vitamin B ₁₂ , mcg	2	0.8
L-Cystine	0.82	0.33	Niacin, mg	5	2
Glycine	3.99	1.60	Pantothenic Acid, mg	240	96
L-Histidine	1.28	0.51	Folic Acid, mcg	3.2	1.3
L-Isoleucine	0.78	0.31	Biotin, mcg	18	7.2
L-Leucine	None	None	Vitamin C, mg	62.5	25
L-Lysine	1.95	0.78	Choline, mg	250	100
L-Methionine	0.54	0.22	Inositol, mg	56	22
L-Phenylalanine	1.5	0.60	Minerals		
L-Proline	4.01	1.60	Calcium, mg	810	324
L-Serine	1.24	0.50	Phosphorus, mg	810	324
L-Threonine	1.32	0.53	Magnesium, mg	128	51
L-Tryptophan	0.5	0.20	Iron, mg	14	5.6
L-Tyrosine	1.45	0.58	Zinc, mg	11	4.4
L-Valine	0.87	0.35	Manganese, mg	1.9	0.8
L-Carnitine	0.02	0.01	Copper, mcg	1000	400
Taurine	0.14	0.06	Iodine, mcg	144	58
L-Glutamine	1.5	0.60	Molybdenum, mcg	33	13
			Chromium, mcg	21.5	8.6
			Selenium, mcg	40	16
			Sodium, mg (mEq)	580 (25.2)	232 (10)
			Potassium, mg (mEq)	840 (21.5)	336 (8.6)
			Chloride, mg (mEq)	450 (12.9)	180 (5.2)

Ingredients:

Sugar, Corn Syrup Solids, L-Proline, Glycine, L-Arginine L-Aspartate, Calcium Phosphate Dibasic, Citric Acid, L-Lysine Acetate, Tripotassium Citrate, Artificial Flavors, L-Glutamine, L-Phenylalanine, L-Tyrosine, L-Alanine, L-Threonine, L-Histidine, L-Serine, Maltodextrin, Disodium Hydrogen Phosphate, L-Valine, L-Cystine, Sodium Chloride, L-Isoleucine, Magnesium Acetate, N-Acetyl L-Methionine, Choline Bitartrate, L-Tryptophan, Magnesium L-Aspartate, Taurine, L-Ascorbic Acid, Tricalcium Phosphate, M-Inositol, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Artificial Colors (Beta Carotene, Beet Red), Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



XLeu Maxamum®

A leucine-free powdered medical food for the dietary management of isovaleric acidemia 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)
- XLeu Maxamum 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

Indications:

- Isovaleric acidemia
- Other proven disorders of leucine metabolism

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117790	49735-0177-90	B4157 or B4162	6 x 454 g (1 lb)	1385

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	305	76	Vitamin A, IU (mcg R.E.)	2228 (669)	557 (167)
Protein Equivalent, g	40	10	Vitamin D, IU (mcg)	332 (8.3)	83 (2.1)
Fat, g	<1	<0.25	Vitamin E, IU (mg α T.E.)	18.3 (12.3)	4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82	21
Amino Acids, g			Thiamin, 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	0.4
L-Aspartic Acid	3	0.75	Vitamin B ₁₂ , mcg	3.1	0.8
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	1.2	0.30	Vitamin C, mg	62	16
L-Leucine	None	None	Choline, mg	430	108
L-Lysine	3	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	77
L-Threonine	2.1	0.53	Iron, mg	14.7	3.7
L-Tryptophan	0.79	0.20	Zinc, mg	9	2
L-Tyrosine	2.3	0.58	Manganese, mg	1.8	0.5
L-Valine	1.4	0.35	Copper, mcg	820	205
L-Carnitine	0.039	0.01	Iodine, mcg	131	33
Taurine	0.14	0.04	Molybdenum, mcg	37	9
L-Glutamine	0.32	0.08	Chromium, mcg	26	7
			Selenium, mcg	58	15
			Sodium, mg (mEq)	560 (24.3)	140 (6.1)
			Potassium, mg (mEq)	700 (17.9)	175 (4.5)
			Chloride, mg (mEq)	560 (16)	140 (4)

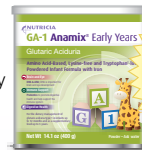
Ingredients:

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, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



XLys, XTrp Analog™

A lysine- and tryptophan-free powdered infant formula for the dietary management of glutaric acidemia type I.



Coming
in 2015:
GA-1 Anamix®
Early Years

Main Features:

- Lysine- and tryptophan-free
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- XLys, XTrp Analog provides 13 g of protein equivalent per 100 g of powder
- Osmolality (at 15% w/v): 377 mOsm/kg

Indications:

- Glutaric acidemia type I

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
118328	49735-0183-28	B4162	6 x 400 g (14 oz)	1900

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	475	365	Vitamin A, IU (mcg R.E.)	1760 (528)	1357 (406)
Protein Equivalent, g	13	10	Vitamin D, IU (mcg)	340 (8.5)	262 (6.5)
Fat, g	20.9	16	Vitamin E, IU (mg α T.E.)	4.9 (3.3)	3.8 (2.5)
Saturated, g	6.8	5.2	Vitamin K, mcg	21	16
Monounsaturated, g	9.5	7.3	Thiamin, mcg	500	385
Polyunsaturated, g	3.6	2.8	Riboflavin, mcg	600	462
Linoleic Acid, mg	3025	2330	Vitamin B ₆ , mcg	520	400
Carbohydrate, g	59	45	Vitamin B ₁₂ , mcg	1.25	0.96
Amino Acids, g			Niacin, mcg	4500	3462
L-Alanine	0.61	0.47	Folic Acid, mcg	38	29
L-Arginine	1.1	0.85	Pantothenic Acid, mcg	2600	2000
L-Aspartic Acid	0.9	0.69	Biotin, mcg	26	20
L-Cystine	0.43	0.33	Vitamin C, mg	40	31
L-Glutamic Acid	1.1	0.85	Choline, mg	50	38
Glycine	1	0.77	Inositol, mg	100	77
L-Histidine	0.65	0.50	Minerals		
L-Isoleucine	1.03	0.79	Calcium, mg	600	462
L-Leucine	1.75	1.35	Phosphorus, mg	500	385
L-Lysine	None	None	Magnesium, mg	40	31
L-Methionine	0.27	0.21	Iron, mg	10	8
L-Phenylalanine	0.77	0.59	Zinc, mg	8	6
L-Proline	1.24	0.95	Manganese, mcg	600	462
L-Serine	0.77	0.59	Copper, mcg	450	346
L-Threonine	0.86	0.66	Iodine, mcg	47	36
L-Tryptophan	None	None	Molybdenum, mcg	15	12
L-Tyrosine	0.77	0.59	Chromium, mcg	15	12
L-Valine	1.12	0.86	Selenium, mcg	15	12
L-Carnitine	0.01	0.01	Sodium, mg (mEq)	120 (5.2)	92 (4.0)
Taurine (mg)	0.02	0.02	Potassium, mg (mEq)	420 (10.8)	323 (8.3)
L-Glutamine	0.1	0.08	Chloride, mg (mEq)	290 (8.2)	223 (6.3)

Ingredients:

Corn Syrup Solids, High Oleic Safflower Oil, Refined Vegetable Oil (Coconut, Soy), Calcium Phosphate Dibasic, L-Leucine, L-Glutamic Acid, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, L-Aspartic Acid, Galactose, L-Threonine, Tripotassium Citrate, L-Phenylalanine, L-Tyrosine, L-Serine, Calcium Phosphate Monobasic, L-Alanine, L-Histidine, Mono and Diglycerides, L-Cystine, Sodium Chloride, L-Methionine, Magnesium Acetate, Potassium Chloride, Diacetyl Tartaric Acid Esters of Monoglycerides, Tricalcium Citrate, L-Glutamine, Choline Bitartrate, M-Inositol, L-Ascorbic Acid, Soy Lecithin, Calcium Phosphate Tribasic, Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Nicotinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Manganese Sulfate, Cupric Sulfate, Vitamin A Acetate, Pyridoxine Hydrochloride, Riboflavin, Thiamin Chloride Hydrochloride, Chromium Sulfate, Potassium Iodide, Folic Acid, Sodium Molybdate, Phylloquinone, Biotin, Sodium Hydrogen Selenite, Vitamin D₃, Cyanocobalamin.



XLys, XTrp Maxamaid®

A lysine- and tryptophan-free powdered medical food for the dietary management of glutaric acidemia type I in toddlers and young children.

Main Features:

- Lysine- and tryptophan-free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XLys, XTrp Maxamaid provides 25 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

Indications:

- Glutaric acidemia type I

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117780	49735-0177-80	B4162	6 x 454 g (1 lb)	1471

WIC+ eligible in all States.

For more reimbursement information see page 227.

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	324	130	Vitamin A, IU (mcg R.E.)	1665 (500)	666 (200)
Protein Equivalent, g	25	10	Vitamin D, IU (mcg)	480 (12)	192 (4.8)
Fat, g	<0.1	0.04	Vitamin E, IU (mg αT.E.)	14.3 (9.6)	5.7 (3.8)
Carbohydrate, g	56	22	Vitamin K, mcg	48	19
Amino Acids, g			Thiamin, mg	0.8	0.3
L-Alanine	1.28	0.51	Riboflavin, mg	0.8	0.3
L-Arginine	2.23	0.89	Vitamin B ₆ , mg	0.8	0.3
L-Aspartic Acid	1.86	0.74	Vitamin B ₁₂ , mcg	2	0.8
L-Cystine	0.83	0.33	Niacin, mg	14.5	5.8
Glycine	2	0.80	Folic Acid, mcg	240	96
L-Histidine	1.27	0.51	Pantothenic Acid, mg	3.2	1.3
L-Isoleucine	2	0.80	Biotin, mcg	18	7.2
L-Leucine	3.42	1.37	Vitamin C, mg	62.5	25
L-Lysine	None	None	Choline, mg	250	100
L-Methionine	0.53	0.21	Inositol, mg	56	22
L-Phenylalanine	1.51	0.60	Minerals		
L-Proline	2.42	0.97	Calcium, mg	810	324
L-Serine	1.49	0.60	Phosphorus, mg	810	324
L-Threonine	1.68	0.67	Magnesium, mg	128	51
L-Tryptophan	None	None	Iron, mg	14	5.6
L-Tyrosine	1.51	0.60	Zinc, mg	11	4.4
L-Valine	2.18	0.87	Manganese, mg	1.9	0.8
L-Carnitine	0.02	0.01	Copper, mcg	1000	400
Taurine	0.14	0.06	Iodine, mcg	144	58
L-Glutamine	1.5	0.60	Molybdenum, mcg	33	13
			Chromium, mcg	21.5	8.6
			Selenium, mcg	40	16
			Sodium, mg (mEq)	580 (25.2)	232 (10)
			Potassium, mg (mEq)	840 (21.5)	336 (8.6)
			Chloride, mg (mEq)	450 (12.9)	180 (5.2)

Ingredients:

Sugar, Corn Syrup Solids, L-Arginine, L-Aspartate, Calcium Phosphate Dibasic, L-Leucine, Citric Acid, Tripotassium Citrate, L-Proline, L-Valine, Glycine, L-Isoleucine, Artificial Flavors, L-Threonine, L-Glutamine, L-Phenylalanine, L-Tyrosine, L-Serine, L-Histidine, L-Alanine, Maltodextrin, Disodium Hydrogen Phosphate, L-Cystine, Sodium Chloride, Magnesium Acetate, N-Acetyl L-Methionine, Choline Bitartrate, Magnesium L-Aspartate, Taurine, L-Ascorbic Acid, Tricalcium Phosphate, M-Inositol, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Artificial Colors (Beta-Carotene, Beet Red), Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



XLys, XTrp Maxamum®

A lysine- and tryptophan-free powdered medical food for the dietary management of glutaric acidemia type I in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Lysine- and tryptophan-free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XLys, XTrp Maxamum 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

Indications:

- Glutaric acidemia type I

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117788	49735-0177-88	B4157 or B416	6 x 454 g (1 lb)	1385

WIC⁺ eligible in all States. For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g Protein Equivalent		Vitamins	Per 10 g Protein Equivalent	
	Per 100 g	Per 10 g		Per 100 g	Per 10 g
Calories	305	76	Vitamin A, IU (mcg R.E.)	2228 (669)	557 (167)
Protein Equivalent, g	40	10	Vitamin D, IU (mcg)	332 (8.3)	83 (2.1)
Fat, g	<1	<0.25	Vitamin E, IU (mg α T.E.)	18.3 (12.3)	4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82	21
Amino Acids, g			Thiamin, mg	0.91	0.23
L-Alanine	2	0.50	Riboflavin, mg	0.97	0.24
L-Arginine	3.5	0.88	Vitamin B ₆ , mg	1.6	0.4
L-Aspartic Acid	2.9	0.73	Vitamin B ₁₂ , mcg	3.1	0.8
L-Cystine	1.3	0.33	Niacin, mg	12	3.0
L-Glutamic Acid	3.9	0.98	Folic Acid, mcg	491	123
Glycine	3.1	0.78	Pantothenic Acid, mg	4.9	1.2
L-Histidine	2	0.50	Biotin, mcg	24.5	6.1
L-Isoleucine	3.1	0.78	Vitamin C, mg	62	16
L-Leucine	5.3	1.33	Choline, mg	430	108
L-Lysine	None	None	Inositol, mg	80	20
L-Methionine	0.82	0.21	Minerals		
L-Phenylalanine	2.3	0.58	Calcium, mg	1183	296
L-Proline	3.7	0.93	Phosphorus, mg	1137	284
L-Serine	2.3	0.58	Magnesium, mg	306	77
L-Threonine	2.6	0.65	Iron, mg	14.7	3.7
L-Tryptophan	None	None	Zinc, mg	9	2
L-Tyrosine	2.3	0.58	Manganese, mg	1.8	0.5
L-Valine	3.4	0.85	Copper, mcg	820	205
L-Carnitine	0.039	0.01	Iodine, mcg	131	33
Taurine	0.14	0.04	Molybdenum, mcg	37	9
L-Glutamine	0.32	0.08	Chromium, mcg	26	7
			Selenium, mcg	58	15
			Sodium, mg (mEq)	560 (24.3)	140 (6.1)
			Potassium, mg (mEq)	700 (17.9)	175 (4.4)
			Chloride, mg (mEq)	560 (16)	140 (4)

Ingredients:

Sugar, L-Leucine, Corn Syrup Solids, Calcium Phosphate Dibasic, L-Glutamic Acid, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, L-Aspartic Acid, L-Threonine, Artificial Flavor, L-Phenylalanine, L-Tyrosine, L-Serine, Citric Acid, L-Alanine, L-Histidine, Magnesium Acetate, L-Cystine, Tripotassium Citrate, Choline Bitartrate, Sodium Chloride, L-Methionine, 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, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



GlutarAde™ Junior GA-1 Drink Mix

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
- Contains 60 mg of tryptophan per 100 g powder
- Contains arginine
- Complete with vitamins and minerals
- Amino acid profile specifically designed for GA-1†
- Provides 10 g of protein equivalent per 100 g of powder
- Contains a source of Omega-3 fatty acids
- Mild neutral flavor

Indications:

- Glutaric acidemia type I

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
7510	00847-0751-02	B4157 or B4162	4 x 400 g (14.1 oz)	1640

WIC[‡] eligible in all States. For more reimbursement information see page 227.

* 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 R.E.)	1373 (412)	335 (101)
Protein Equivalent, g	10	2.5	Vitamin D, IU (mcg)	525 (13.1)	128 (3.2)
Carbohydrate, g	69	17	Vitamin E, IU (mg α T.E.)	8.5 (5.7)	2.1 (1.4)
Fat, g	10	2.5	Vitamin K, mcg	34	8.3
Saturated Fat, g	2	0.48	Thiamin, mg	0.83	0.2
Monounsaturated Fat, g	5.3	1.3	Riboflavin, mg	0.69	0.17
Polyunsaturated Fat, g	2.6	0.63	Vitamin B ₆ , mg	0.66	0.16
Linoleic Acid, mg	1901	463	Vitamin B ₁₂ , mcg	1.4	0.35
α-Linolenic Acid, mg	721	176	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	Phosphorus, mg	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	None	None	Zinc, mg	7	1.6
L-Methionine	0.41	0.10	Manganese, mg	0.43	0.1
L-Ornithine	0.24	0.06	Copper, mg	0.5	0.12
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 Food Starch, Canola Oil, Maltodextrin, Safflower Oil, Natural and Artificial Flavor, 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, Silica, 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, Thiamin Mononitrate, Pyroxidine Hydrochloride, Riboflavin, Potassium Iodide, Chromium Chloride, Folic Acid, Vitamin B₁₂ and Sodium Molybdate.

† Strauss KA, et al. Mol Genet Metab. 2011.



GlutarAde™ Essential GA-1 Drink Mix

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

Main Features:

- 25 g of protein equivalent per 100 g of powder
- Amino acid profile specifically designed for GA-1†
- Lysine-free
- Contains 150 mg of tryptophan per 100 g powder
- Contains a source of Omega-3 fatty acids
- Recommended for children, teens and adults with proven GA-1
- Osmolality (mOsm/kg): 797
Based on standard dilution of 40 g powder to 7 fl oz water (210 mL)
- Vanilla flavor

† Strauss KA, et al. Mol Genet Metab. 2011.

Indications:

- Glutaric acidemia type I

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
7542	00847-0754-22	B4157 or B4162	4 x 454 g (1 lb)	1748

WIC⁺ eligible in all States. For more reimbursement information see page 227.

* 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 R.E.)	1700 (637)	680 (255)
Protein Equivalent, g	25	10	(25% as beta-carotene)		
Carbohydrate, g	45	18	Vitamin D, IU (mcg)	600 (15)	240 (6)
Soluble Fiber, g	3.9	1.5	Vitamin E, IU (mg α T.E.)	19.1 (12.8)	7.6 (5.1)
Fat, g	13	5	Vitamin K, mcg	70	28
Saturated Fat, g	2.3	0.92	Thiamin, mg	1.5	0.6
Monounsaturated Fat, g	7.6	3	Riboflavin, mg	1.5	0.6
Polyunsaturated Fat, g	2.9	1.1	Vitamin B ₆ , mg	1.4	0.56
Linoleic Acid, mg	2232	893	Vitamin B ₁₂ , mcg	3	1.2
α-Linolenic Acid, mg	687	275	Niacin, mg	15.5	6.2
Amino Acids, g			Folic Acid, mcg	300	120
L-Alanine	1.20	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	None	None	Zinc, mg	10	4
L-Methionine	1.02	0.41	Manganese, mg	1.9	0.76
L-Ornithine	0.6	0.24	Copper, mg	1	0.4
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 Flavor, L-Arginine, Dicalcium Phosphate, L-Valine, L-Isoleucine, L-Asparagine Monohydrate, 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, Silica, L-Tryptophan, Taurine, Sodium Chloride, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Niacinamide, Calcium Phosphate, Zinc Oxide, Sucralose (4mg/40g Powder), D-Calcium Pantothenate, Copper Gluconate, Vitamin K₁, Vitamin D₃, Manganese Sulfate, Vitamin A Palmitate, Mono- and Diglycerides, D-Biotin, Beta-carotene, Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Thiamin Mononitrate, Sodium Selenite, Folic Acid, Vitamin B₁₂, Chromium Chloride and Sodium Molybdate.



GlutarAde™ Amino Acid Blend

A lysine-free and low tryptophan powdered medical food for the dietary management of Glutaric Aciduria Type 1 (GA-1) in children and adults.

Main Features:

- Amino acid protein that can be mixed with any low protein food or drink
- Boost protein intake by adding to current GA-1 formula
- Provides 81 g of protein equivalent per 100 g of powder
- Does not contain fat, carbohydrate or vitamins and minerals
- Amino acid profile specifically designed for GA-1[†]

Indications:

- Glutaric acidemia type I

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
7500	00847-0750-00	B4155 or B9998	4 x 454 g (1 lb)	1471

WIC[‡] eligible in all States. For more reimbursement information see page 227.

[†] Strauss KA, et al. Mol Genet Metab. 2011.

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

Nutrition Information:

Nutrients	Per 10 g Protein Equivalent		Amino Acids, g	Per 10 g Protein Equivalent	
	Per 100 g	(1 scoop)		Per 100 g	(1 scoop)
Calories	324	40	L-Alanine	3.86	0.48
Protein Equivalent, g	81	10	L-Arginine	8.69	1.07
Carbohydrate, g	0	0	L-Asparagine	5.79	0.71
Fat, g	0	0	L-Cystine	1.45	0.18
Minerals			L-Glutamic Acid	2.90	0.36
Sodium, mg	355	44	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	None	None
			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:

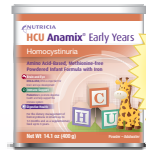
L-Glutamine, L-Leucine, L-Arginine, L-Valine, L-Isoleucine, L-Asparagine Monohydrate, L-Tyrosine, L-Phenylalanine, L-Threonine, L-Proline, L-Ornithine-Alpha Ketoglutarate, L-Alanine, L-Methionine, L-Glutamic Acid, L-Histidine, Glycine, L-Serine, L-Cystine, Taurine, L-Tryptophan, Silica and L-Carnitine.

Note: Must combine with an appropriate vitamin & mineral supplement when taken as the sole source of amino acid protein.



XMet Analog™

A methionine-free powdered infant formula for the dietary management of vitamin B₆ non-responsive homocystinuria or hypermethioninemia.



Coming in 2015:
HCU Anamix®
Early Years

Main Features:

- Methionine-free
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- XMet Analog provides 13 g of protein equivalent per 100 g of powder
- Osmolality (at 15% w/v): 377 mOsm/kg

Indications:

- Vitamin B₆ non-responsive homocystinuria
- Hypermethioninemia

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
118327	49735-0183-27	B4162	6 x 400 g (14 oz)	1900

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	475	365	Vitamin A, IU (mcg R.E.)	1760 (528)	1358 (406)
Protein Equivalent, g	13	10	Vitamin D, IU (mcg)	340 (8.5)	262 (6.5)
Fat, g	20.9	16	Vitamin E, IU (mcg α T.E.)	4.9 (3.3)	3.8 (2.5)
Saturated, g	6.8	5.2	Vitamin K, mcg	21	16
Monounsaturated, g	9.5	7.3	Thiamin, mcg	500	385
Polyunsaturated, g	3.6	2.8	Riboflavin, mcg	600	462
Linoleic Acid, mg	3025	2330	Vitamin B ₆ , mcg	520	400
Carbohydrate, g	59	45	Vitamin B ₁₂ , mcg	1.25	0.96
Amino Acids, g			Niacin, mcg	4500	3462
L-Alanine	0.50	0.38	Folic Acid, mcg	38	29
L-Arginine	1	0.77	Pantothenic Acid, mcg	2600	2000
L-Aspartic Acid	0.8	0.62	Biotin, mcg	26	20
L-Cystine	0.39	0.30	Vitamin C, mg	40	31
L-Glutamic Acid	1.14	0.88	Choline, mg	50	38
Glycine	0.93	0.72	Inositol, mg	100	77
L-Histidine	0.6	0.46	Minerals		
L-Isoleucine	0.93	0.72	Calcium, mg	600	462
L-Leucine	1.59	1.22	Phosphorus, mg	500	385
L-Lysine	1.08	0.83	Magnesium, mg	40	31
L-Methionine	None	None	Iron, mg	10	8
L-Phenylalanine	0.70	0.54	Zinc, mg	8	6
L-Proline	1.12	0.86	Manganese, mcg	600	462
L-Serine	0.69	0.53	Copper, mcg	450	346
L-Threonine	0.78	0.62	Iodine, mcg	47	36
L-Tryptophan	0.31	0.24	Molybdenum, mcg	15	12
L-Tyrosine	0.8	0.62	Chromium, mcg	15	12
L-Valine	1.01	0.78	Selenium, mcg	15	12
L-Carnitine	0.01	0.01	Sodium, mg (mEq)	120 (5.2)	92 (4.0)
Taurine	0.02	0.02	Potassium, mg (mEq)	420 (10.8)	323 (8.3)
L-Glutamine	0.1	0.08	Chloride, mg (mEq)	290 (8.2)	223 (6.3)

Ingredients:

Corn Syrup Solids, High Oleic Safflower Oil, Refined Vegetable Oil (Coconut, Soy), L-Lysine L-Glutamate, Calcium Phosphate Dibasic, L-Leucine, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, Galactose, L-Aspartic Acid, Tripotassium Citrate, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, Calcium Phosphate Monobasic, L-Alanine, L-Histidine, Mono and Diglycerides, L-Cystine, L-Tryptophan, Sodium Chloride, Magnesium Acetate, Potassium Chloride, Diacetyl Tartaric Acid Esters of Monoglycerides, Tricalcium Citrate, L-Glutamine, Choline Bitartrate, M-Inositol, L-Ascorbic Acid, Soy Lecithin, L-Glutamic Acid, Calcium Phosphate Tribasic, Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Nicotinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Manganese Sulfate, Cupric Sulfate, Vitamin A Acetate, Pyridoxine Hydrochloride, Riboflavin, Thiamin Chloride Hydrochloride, Chromium Sulfate, Potassium Iodide, Folic Acid, Sodium Molybdate, Phylloquinone, D-Biotin, Sodium Hydrogen Selenite, Vitamin D₃, Cyanocobalamin.



XMet Maxamaid®

A methionine-free powdered medical food for the dietary management of vitamin B₆ non-responsive homocystinuria or hypermethioninemia in toddlers and young children.

Main Features:

- Methionine-free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XMet Maxamaid provides 25 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

Indications:

- Vitamin B₆ non-responsive homocystinuria
- Hypermethioninemia

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117787	49735-0177-87	B4162	6 x 454 g (1 lb)	1471

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	324	130	Vitamin A, IU (mcg R.E.)	1665 (500)	666 (200)
Protein Equivalent, g	25	10	Vitamin D, IU (mcg)	480 (12)	192 (4.8)
Fat, g	<0.1	0.04	Vitamin E, IU (mg α.T.E.)	14.3 (9.6)	5.7 (3.8)
Carbohydrate, g	56	22	Vitamin K, mcg	48	19
Amino Acids, g			Thiamin, mg	0.8	0.3
L-Alanine	1.16	0.46	Riboflavin, mg	0.8	0.3
L-Arginine	2.04	0.82	Vitamin B ₆ , mg	0.8	0.3
L-Aspartic Acid	1.70	0.68	Vitamin B ₁₂ , mcg	2	0.8
L-Cystine	0.75	0.30	Niacin, mg	5	2
Glycine	1.81	0.72	Folic Acid, mcg	240	96
L-Histidine	1.16	0.46	Pantothenic Acid, mg	3.2	1.3
L-Isoleucine	1.81	0.72	Biotin, mcg	18	7.2
L-Leucine	3.1	1.24	Vitamin C, mg	62.5	25
L-Lysine	2.1	0.84	Choline, mg	250	100
L-Methionine	None	None	Inositol, mg	56	22
L-Phenylalanine	1.37	0.55	Minerals		
L-Proline	2.19	0.88	Calcium, mg	810	324
L-Serine	1.35	0.54	Phosphorus, mg	810	324
L-Threonine	1.52	0.61	Magnesium, mg	128	51
L-Tryptophan	0.61	0.24	Iron, mg	14	5.6
L-Tyrosine	1.37	0.55	Zinc, mg	11	4.4
L-Valine	1.97	0.79	Manganese, mg	1.9	0.8
L-Carnitine	0.02	0.01	Copper, mcg	1000	400
Taurine	0.14	0.06	Iodine, mcg	144	58
L-Glutamine	1.5	0.60	Molybdenum, mcg	33	13
			Chromium, mcg	21.5	8.6
			Selenium, mcg	40	16
			Sodium, mg (mEq)	580 (25.2)	232 (10)
			Potassium, mg (mEq)	840 (21.5)	336 (8.6)
			Chloride, mg (mEq)	450 (12.9)	180 (5.2)

Ingredients:

Sugar, Corn Syrup Solids, Calcium Phosphate Dibasic, L-Arginine L-Aspartate, L-Leucine, L-Lysine Acetate, Citric Acid, Tripotassium Citrate, L-Proline, L-Valine, Artificial Flavors, Glycine, L-Isoleucine, L-Threonine, L-Glutamine, L-Phenylalanine, L-Tyrosine, L-Serine, L-Alanine, L-Histidine, Maltodextrin, Disodium Hydrogen Phosphate, Sodium Chloride, Magnesium Acetate, L-Cystine, Choline Bitartrate, L-Tryptophan, Taurine, Magnesium L-Aspartate, L-Ascorbic Acid, Tricalcium Phosphate, M-Inositol, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Artificial Colors (Beta-Carotene, Beet Red), Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



XMet Maxamum®

A methionine-free powdered medical food for the dietary management of vitamin B₆ non-responsive homocystinuria 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
- XMet Maxamum 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

Indications:

- Vitamin B₆ non-responsive homocystinuria
- Hypermethioninemia

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117795	49735-0177-95	B4157 or B4162	6 x 454 g (1 lb)	1385

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	305	76	Vitamin A, IU (mcg R.E.)	2228 (669)	557 (167)
Protein Equivalent, g	40	10	Vitamin D, IU (mcg)	332 (8.3)	83 (2.1)
Fat, g	<1	<0.25	Vitamin E, IU (mg α.T.E.)	18.3 (12.3)	4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82	21
Amino Acids, g			Thiamin, mg	0.91	0.23
L-Alanine	1.8	0.45	Riboflavin, mg	0.97	0.24
L-Arginine	3.2	0.80	Vitamin B ₆ , mg	1.6	0.4
L-Aspartic Acid	2.7	0.68	Vitamin B ₁₂ , mcg	3.1	0.8
L-Cystine	1.2	0.30	Niacin, mg	5.7	1.4
L-Glutamic Acid	3.6	0.90	Folic Acid, mcg	491	123
Glycine	2.8	0.70	Pantothenic Acid, mg	4.9	1.2
L-Histidine	1.8	0.45	Biotin, mcg	24.5	6.1
L-Isoleucine	2.8	0.70	Vitamin C, mg	62	16
L-Leucine	4.9	1.23	Choline, mg	430	108
L-Lysine	3.3	0.83	Inositol, mg	80	20
L-Methionine	None	None	Minerals		
L-Phenylalanine	2.2	0.55	Calcium, mg	1183	296
L-Proline	3.4	0.85	Phosphorus, mg	1137	284
L-Serine	2.1	0.53	Magnesium, mg	306	77
L-Threonine	2.4	0.60	Iron, mg	14.7	3.7
L-Tryptophan	0.95	0.24	Zinc, mg	9	2
L-Tyrosine	2.2	0.55	Manganese, mg	1.8	0.5
L-Valine	3.1	0.78	Copper, mcg	820	205
L-Carnitine	0.039	0.01	Iodine, mcg	131	33
Taurine	0.14	0.04	Molybdenum, mcg	37	9
L-Glutamine	0.32	0.08	Chromium, mcg	26	7
			Selenium, mcg	58	15
			Sodium, mg (mEq)	560 (24.3)	140 (6.1)
			Potassium, mg (mEq)	700 (17.9)	175 (4.5)
			Chloride, mg (mEq)	560 (16)	140 (4)

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, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



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 proven homocystinuria 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
- Provides 150 mg DHA per pouch
- Available in mixed berry blast flavor
- Osmolality: 2460 mOsm/kg

Indications:

- Homocystinuria

For details on administration, please see page 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Pouch
66748	49735-016748	B4157 or B4162	30 X 4.2 fl oz (125 mL)	120

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	120.0	60.0	Vitamin A, IU (mcg R.E.)	949 (285)	475 (143)
Protein Equivalent, g	20.0	10.0	Vitamin D, IU (mcg)	320 (8.0)	160 (4.0)
Fat, g	0.44	0.22	Vitamin E, IU (mg α.T.E.)	4.8 (3.2)	2.4 (1.6)
DHA, mg	150	75.0	Vitamin K, mcg	24.9	12.5
Carbohydrate, g	9.3	4.7	Thiamin, mg	0.54	0.27
Fiber, g	0.50	0.25	Riboflavin, mg	0.50	0.25
Amino Acids, g			Vitamin B6, mg	0.58	0.29
L-Alanine	1.18	0.59	Vitamin B12, mcg	1.8	0.90
L-Arginine	1.50	0.75	Niacin, mg	7.1	3.6
L-Aspartic Acid	1.73	0.87	Folic Acid, mcg	120	60.0
L-Cystine	0.98	0.49	Pantothenic Acid, mg	1.8	0.9
Glycine	1.60	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	None	None	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	563	282
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 (mmol)	<25.0 (<10)	<12.5 (<5)
			Potassium, mg (mmol)	90 (2.3)	45 (1.2)
			Chloride, mg (mmol)	<25.0 (<10)	<12.5 (<5)

Ingredients:

Water, Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from 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 from Concentrate (0.6%), Maltodextrin, Magnesium L-Aspartate, Magnesium Acetate, L-Tryptophan, Choline Bitartrate, C. Cohnii Oil*, Sugar, Microcrystalline Cellulose, Natural Flavor, Fruit Concentrate (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Taurine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Artificial Sweetener: Sucralose, Artificial Sweetener: Acesulfame Potassium, Ferrous Lactate, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, L-Carnitine, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride 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)

Contains 44.1% juice.



Milupa HOM 2

A powdered medical food containing a mixture of pure L-amino acids free from methionine and enriched with vitamins, minerals, and trace elements. For the dietary management of vitamin B₆ non-responsive homocystinuria in children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Methionine-free
- Concentrated, unflavored powder
- Enriched with vitamins, minerals and trace elements
- Osmolality (at a 1 to 9 dilution): 810 mOsm/kg

Indications:

- Homocystinuria - vitamin B₆ non-responsive (due to Cystathionine β-Synthase Deficiency)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
659357	81361-0935-70	B4155	2 x 500 g (17.6 oz)	1450

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	290	42	Vitamin A, IU (mcg R.E.)	5200 (1562)	754 (226)
Protein Equivalent, g	69	10	Vitamin D, IU (mcg)	1310 (33)	190 (4.8)
Fat, g	None	None	Vitamin E, IU (mg α.T.E.)	18 (12)	2.6 (1.7)
Carbohydrate, g	3.8	0.6	Vitamin K, mcg	167	24
Amino Acids, g			Thiamin, mg	1.4	0.2
L-Alanine	3.1	0.45	Riboflavin, mg	2	0.3
L-Arginine	2.7	0.39	Vitamin B ₆ , mg	1.5	0.2
L-Aspartic Acid	7.6	1.10	Vitamin B ₁₂ , mcg	3	0.4
L-Cystine	3.4	0.49	Niacin, mg	24	3
L-Glutamic Acid	16.0	2.32	Folic Acid, mcg	400	58
Glycine	1.8	0.26	Pantothenic Acid, mg	11	2
L-Histidine	1.8	0.26	Biotin, mcg	300	43
L-Isoleucine	4.5	0.65	Vitamin C, mg	80	12
L-Leucine	7.6	1.10	Choline, mg	260	38
L-Lysine	5.4	0.78	Inositol, mg	300	43
L-Methionine	None	None	Minerals		
L-Phenylalanine	3.2	0.46	Calcium, mg	1310	190
L-Proline	7.1	1.03	Phosphorus, mg	1010	146
L-Serine	4.0	0.58	Magnesium, mg	156	23
L-Threonine	3.6	0.52	Iron, mg	15	2.2
L-Tryptophan	1.4	0.20	Zinc, mg	8	1.1
L-Tyrosine	3.9	0.57	Manganese, mg	0.7	0.1
L-Valine	5.4	0.78	Copper, mcg	2000	290
			Iodine, mcg	120	17
			Molybdenum, mcg	32	5
			Sodium, mg	640	93
			Potassium, mg	1330	193
			Chloride, mg	990	143

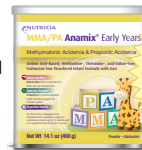
Ingredients:

L-Amino Acids (L-Lysine-L-Glutamate, L-Glutamic Acid, L-Leucine, L-Proline, L-Aspartic Acid, L-Valine, L-Isoleucine, L-Serine, L-Tyrosine, L-Threonine, L-Cystine, L-Phenylalanine, L-Alanine, L-Arginine, Magnesium-L-Aspartate, L-Histidine, Glycine, L-Tryptophan), Sugar, Potassium Phosphate, Calcium Phosphate, Calcium Carbonate, Salt, Choline Bitartrate, M-Inositol, Ascorbic Acid, Ferrous Sulfate, Vanillin, Niacinamide, Vitamin E Acetate, Zinc Sulfate, Calcium-D-Pantothenate, Copper Acetate, Pyridoxine Hydrochloride, Thiamin Hydrochloride, Riboflavin, Manganese Sulfate, Vitamin A Acetate, Biotin, Folic Acid, Potassium Iodide, Vitamin K₁, Ammonium Heptamolybdate, Vitamin D₃, Vitamin B₁₂.



XMTVI Analog™

A methionine-, threonine-, valine-free and isoleucine-low powdered infant formula for the dietary management of vitamin B₁₂ non-responsive methylmalonic acidemia or propionic acidemia.



Coming
in 2015:
MMA/PA Anamix®
Early Years

Main Features:

- Methionine-, threonine-, valine-free and isoleucine-low
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- XMTVI Analog provides 13 g of protein equivalent per 100 g of powder
- Osmolality (at 15% w/v): 377 mOsm/kg

Indications:

- Vitamin B₁₂ non-responsive methylmalonic acidemia
- Propionic acidemia

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
118303	49735-0183-03	B4162	6 x 400 g (14 oz)	1900

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	475	365	Vitamin A, IU (mcg R.E.)	1760 (528)	135.4 (406)
Protein Equivalent, g	13	10	Vitamin D, IU (mcg)	340 (8.5)	262 (6.5)
Fat, g	20.9	16	Vitamin E, IU (mg α.T.E.)	4.9 (3.3)	3.8 (2.5)
Saturated, g	6.8	5.2	Vitamin K, mcg	21	16
Monounsaturated, g	9.5	7.3	Thiamin, mcg	500	385
Polyunsaturated, g	3.6	2.8	Riboflavin, mcg	600	462
Linoleic Acid, mg	3025	2330	Vitamin B ₆ , mcg	520	400
Carbohydrate, g	59	45	Vitamin B ₁₂ , mcg	1.25	0.96
Amino Acids, g			Niacin, mcg	4500	3462
L-Alanine	1.48	1.14	Folic Acid, mcg	38	29
L-Arginine	1.33	1.02	Pantothenic Acid, mcg	2600	2000
L-Aspartic Acid	1.17	0.90	Biotin, mcg	26	20
L-Cystine	0.49	0.38	Vitamin C, mg	40	31
L-Glutamic Acid	1.47	1.13	Choline, mg	50	38
Glycine	0.59	0.45	Inositol, mg	100	77
L-Histidine	0.9	0.69	Minerals		
L-Isoleucine	Trace	Trace	Calcium, mg	600	462
L-Leucine	2.00	1.54	Phosphorus, mg	500	385
L-Lysine	1.36	1.05	Magnesium, mg	40	31
L-Methionine	None	None	Iron, mg	10	8
L-Phenylalanine	0.88	0.68	Zinc, mg	8	6
L-Proline	0.59	0.45	Manganese, mcg	600	462
L-Serine	0.83	0.64	Copper, mcg	450	346
L-Threonine	None	None	Iodine, mcg	47	36
L-Tryptophan	0.39	0.30	Molybdenum, mcg	15	12
L-Tyrosine	0.88	0.68	Chromium, mcg	15	12
L-Valine	None	None	Selenium, mcg	15	12
L-Carnitine	0.01	0.01	Sodium, mg (mEq)	120 (5.2)	92 (4.0)
Taurine	0.02	0.02	Potassium, mg (mEq)	420 (10.8)	323 (8.3)
L-Glutamine	0.1	0.08	Chloride, mg (mEq)	290 (8.2)	223 (6.3)

Ingredients:

Corn Syrup Solids, High Oleic Safflower Oil, Refined Vegetable Oil (Coconut, Soy), L-Lysine L-Glutamate, L-Leucine, Calcium Phosphate Dibasic, L-Alanine, L-Arginine, L-Aspartic Acid, Galactose, L-Histidine, L-Phenylalanine, L-Tyrosine, Tripotassium Citrate, L-Serine, Calcium Phosphate Monobasic, Glycine, L-Proline, Mono and Diglycerides, L-Cystine, L-Tryptophan, Sodium Chloride, Magnesium Acetate, Potassium Chloride, Diacetyl Tartaric Acid Esters of Monoglycerides, Tricalcium Citrate, L-Glutamine, Choline Bitartrate, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Soy Lecithin, Calcium Phosphate Tribasic, Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Nicotinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Manganese Sulfate, Cupric Sulfate, Vitamin A Acetate, Pyridoxine Hydrochloride, Riboflavin, Thiamin Chloride Hydrochloride, Chromium Sulfate, Potassium Iodide, Folic Acid, Sodium Molybdate, Phylloquinone, Biotin, Sodium Hydrogen Selenite, Vitamin D₃, Cyanocobalamin.



XMTVI Maxamaid®

A methionine-, threonine-, valine-free and isoleucine-low powdered medical food for the dietary management of vitamin B₁₂ non-responsive methylmalonic acidemia or propionic acidemia in toddlers and young children.

Main Features:

- Methionine-, threonine-, valine-free and isoleucine-low
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XMTVI Maxamaid provides 25 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

Indications:

- Vitamin B₁₂ non-responsive methylmalonic acidemia
- Propionic acidemia

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117785	49735-0177-85	B4162	6 x 454 g (1 lb)	1471

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	324	130	Vitamin A, IU (mcg R.E.)	1665 (500)	666 (200)
Protein Equivalent, g	25	10	Vitamin D, IU (mcg)	480 (12)	192 (4.8)
Fat, g	<0.1	0.04	Vitamin E, IU (mg α.T.E.)	14.3 (9.6)	5.7 (3.8)
Carbohydrate, g	56	22	Vitamin K, mcg	48	19
Amino Acids, g			Thiamin, mg	0.8	0.3
L-Alanine	2.89	1.16	Riboflavin, mg	0.8	0.3
L-Arginine	2.59	1.04	Vitamin B ₆ , mg	0.8	0.3
L-Aspartic Acid	2.3	0.92	Vitamin B ₁₂ , mcg	2	0.8
L-Cystine	0.95	0.38	Niacin, mg	5	2
Glycine	1.16	0.46	Folic Acid, mcg	240	96
L-Histidine	1.75	0.70	Pantothenic Acid, mg	3.2	1.3
L-Isoleucine	<0.07	Trace	Biotin, mcg	18	7.2
L-Leucine	3.9	1.56	Vitamin C, mg	62.5	25
L-Lysine	2.65	1.06	Choline, mg	250	100
L-Methionine	None	None	Inositol, mg	56	22
L-Phenylalanine	1.72	0.69	Minerals		
L-Proline	1.16	0.46	Calcium, mg	810	324
L-Serine	1.62	0.65	Phosphorus, mg	810	324
L-Threonine	None	None	Magnesium, mg	128	51
L-Tryptophan	0.76	0.30	Iron, mg	14	5.6
L-Tyrosine	1.72	0.69	Zinc, mg	11	4.4
L-Valine	None	None	Manganese, mg	1.9	0.8
L-Carnitine	0.02	0.01	Copper, mcg	1000	400
Taurine	0.14	0.06	Iodine, mcg	144	58
L-Glutamine	1.5	0.60	Molybdenum, mcg	33	13
			Chromium, mcg	21.5	8.6
			Selenium, mcg	40	16
			Sodium, mg (mEq)	580 (25.2)	232 (10)
			Potassium, mg (mEq)	840 (21.5)	336 (8.6)
			Chloride, mg (mEq)	450 (12.9)	180 (5.2)

Ingredients:

Sugar, Corn Syrup Solids, L-Arginine, L-Aspartate, L-Leucine, L-Lysine Acetate, Calcium Phosphate Dibasic, Citric Acid, L-Alanine, Tripotassium Citrate, Artificial Flavors, L-Histidine, L-Glutamine, L-Phenylalanine, L-Tyrosine, L-Serine, Glycine, L-Proline, Maltodextrin, Disodium Hydrogen Phosphate, L-Cystine, Sodium Chloride, L-Tryptophan, Choline Bitartrate, Magnesium Acetate, Magnesium L-Aspartate, Taurine, L-Ascorbic Acid, Tricalcium Phosphate, M-Inositol, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Artificial Colors (Beta-Carotene, Beet Red), Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



XMTVI Maxamum®

A methionine-, threonine-, valine-free and isoleucine-low medical food for the dietary management of vitamin B₁₂ non-responsive methylmalonic acidemia or propionic acidemia in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Methionine-, threonine-, valine-free and isoleucine-low
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XMTVI Maxamum 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

Indications:

- Vitamin B₁₂ non-responsive methylmalonic acidemia
- Propionic acidemia

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117779	49735-0177-79	B4162 or B4157	6 x 454 g (1 lb)	1385

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	305	76	Vitamin A, IU (mcg R.E.)	2228 (669)	557 (167)
Protein Equivalent, g	40	10	Vitamin D, IU (mcg)	332 (8.3)	83 (2.1)
Fat, g	<1	<0.25	Vitamin E, IU (mg α.T.E.)	18.3 (12.3)	4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82	21
Amino Acids, g			Thiamin, 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	0.4
L-Aspartic Acid	3.6	0.90	Vitamin B ₁₂ , mcg	3.1	0.8
L-Cystine	1.5	0.38	Niacin, mg	5.7	1.4
L-Glutamic Acid	4.5	1.13	Folic Acid, mcg	491	123
Glycine	1.8	0.45	Pantothenic Acid, mg	4.9	1.2
L-Histidine	2.8	0.70	Biotin, mcg	24.5	6.1
L-Isoleucine	<0.14	Trace	Vitamin C, mg	62	16
L-Leucine	6.2	1.55	Choline, mg	430	108
L-Lysine	4.2	1.05	Inositol, mg	80	20
L-Methionine	None	None	Minerals		
L-Phenylalanine	2.7	0.68	Calcium, mg	1183	296
L-Proline	1.9	0.48	Phosphorus, mg	1137	284
L-Serine	2.6	0.65	Magnesium, mg	306	77
L-Threonine	None	None	Iron, mg	14.7	3.7
L-Tryptophan	1.2	0.30	Zinc, mg	9	2
L-Tyrosine	2.7	0.68	Manganese, mg	1.8	0.5
L-Valine	None	None	Copper, mcg	820	205
L-Carnitine	0.039	0.01	Iodine, mcg	131	33
Taurine	0.14	0.04	Molybdenum, mcg	37	9
L-Glutamine	0.32	0.08	Chromium, mcg	26	7
			Selenium, mcg	58	15
			Sodium, mg (mEq)	560 (24.3)	140 (6.1)
			Potassium, mg (mEq)	700 (17.9)	175 (4.5)
			Chloride, mg (mEq)	560 (16)	140 (4)

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, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



Milupa OS 2

A powdered medical food containing a mixture of pure L-amino acids free from isoleucine, methionine, threonine and valine, and enriched with vitamins, minerals and trace elements. For the dietary management of propionic and methylmalonic acidemia in children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Isoleucine-, methionine-, threonine- and valine-free
- Concentrated, unflavored powder
- Enriched with vitamins, minerals and trace elements
- Osmolality (at a 1 to 9 dilution): 720 mOsm/kg

Indications:

- Propionic acidemia
- Methylmalonic acidemia (vitamin B₁₂ non-responsive)

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
659349	81361-0934-90	B4155	2 x 500 g (17.6 oz)	1500

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	300	54	Vitamin A, IU (mcg R.E.)	5200 (1562)	929 (279)
Protein Equivalent, g	56.2	10	Vitamin D, IU (mcg)	1310 (33)	234 (5.9)
Fat, g	None	None	Vitamin E, IU (mg α T.E.)	18 (12)	3.2 (2.1)
Carbohydrate, g	18.9	3.4	Vitamin K, mcg	167	30
Amino Acids, g			Thiamin, mg	1.4	0.3
L-Alanine	3.1	0.55	Riboflavin, mg	2.0	0.4
L-Arginine	2.7	0.5	Vitamin B ₆ , mg	1.5	0.3
L-Aspartic Acid	7.6	1.4	Vitamin B ₁₂ , mcg	3	0.5
L-Cystine	1.8	0.32	Niacin, mg	24	4
L-Glutamic Acid	16.0	2.9	Folic Acid, mcg	400	71
Glycine	1.8	0.32	Pantothenic Acid, mg	11	2
L-Histidine	1.8	0.32	Biotin, mcg	300	54
L-Isoleucine	None	None	Vitamin C, mg	80	14
L-Leucine	7.6	1.36	Choline, mg	260	46
L-Lysine	5.4	0.96	Inositol, mg	300	54
L-Methionine	None	None	Minerals		
L-Phenylalanine	3.2	0.57	Calcium, mg	1310	234
L-Proline	7.1	1.27	Phosphorus, mg	1010	180
L-Serine	4.0	0.7	Magnesium, mg	156	28
L-Threonine	None	None	Iron, mg	15	2.7
L-Tryptophan	1.4	0.3	Zinc, mg	7.8	1.4
L-Tyrosine	3.9	0.70	Manganese, mg	0.7	0.1
L-Valine	None	None	Copper, mcg	2000	357
			Iodine, mcg	120	21
			Molybdenum, mcg	32	6
			Sodium, mg	640	114
			Potassium, mg	1330	238
			Chloride, mg	990	177

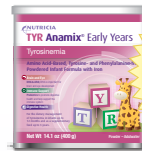
Ingredients:

L-Amino Acids (L-Lysine-L-Glutamate, L-Glutamic Acid, L-Leucine, L-Proline, L-Aspartic Acid, L-Serine, L-Tyrosine, L-Phenylalanine, L-Alanine, L-Arginine, Magnesium-L-Aspartate, L-Histidine, L-Cystine, Glycine, L-Tryptophan), Sugar, Potassium Phosphate, Calcium Phosphate, Calcium Carbonate, Salt, Choline Bitartrate, M-Inositol, Ascorbic Acid, Ferrous Sulfate, Vanillin, Niacinamide, Vitamin E Acetate, Zinc Sulfate, Calcium-D-Pantothenate, Copper Acetate, Pyridoxine Hydrochloride, Thiamin Hydrochloride, Riboflavin, Manganese Sulfate, Vitamin A Acetate, Biotin, Folic Acid, Potassium Iodide, Vitamin K₁, Ammonium Heptamolybdate, Vitamin D₃, Vitamin B₁₂.



XPhe, XTyr Analog™

A phenylalanine- and tyrosine-free powdered infant formula for the dietary management of tyrosinemia when plasma methionine level is normal.



Coming in 2015:
TYR Anamix®
Early Years

Main Features:

- Phenylalanine- and tyrosine-free
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- XPhe, XTyr Analog provides 13 g of protein equivalent per 100 g of powder
- Osmolality (at 15% w/v): 377 mOsm/kg

Indications:

- Tyrosinemia, when plasma methionine level is normal

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
118301	49735-0183-01	B4162	6 x 400 g (14 oz)	1900

WIC⁺ eligible in all States. For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	475	365	Vitamin A, IU (mcg R.E.)	1760 (528)	1361 (406)
Protein Equivalent, g	13	10	Vitamin D, IU (mcg)	340 (8.5)	262 (6.5)
Fat, g	20.9	16	Vitamin E, IU (mg α.T.E.)	4.9 (3.3)	3.8 (2.5)
Saturated, g	6.8	5.2	Vitamin K, mcg	21	16
Monounsaturated, g	9.5	7.3	Thiamin, mcg	500	385
Polyunsaturated, g	3.6	2.8	Riboflavin, mcg	600	462
Linoleic Acid, mg	3025	2330	Vitamin B ₆ , mcg	520	400
Carbohydrate, g	59	45	Vitamin B ₁₂ , mcg	1.25	0.96
Amino Acids, g			Niacin, mcg	4500	3462
L-Alanine	0.63	0.48	Folic Acid, mcg	38	29
L-Arginine	1.13	0.87	Pantothenic Acid, mcg	2600	2000
L-Aspartic Acid	0.93	0.72	Biotin, mcg	26	20
L-Cystine	0.42	0.32	Vitamin C, mg	40	31
L-Glutamic Acid	1.26	0.97	Choline, mg	50	38
Glycine	0.96	0.74	Inositol, mg	100	77
L-Histidine	0.65	0.50	Minerals		
L-Isoleucine	1.00	0.77	Calcium, mg	600	462
L-Leucine	1.72	1.32	Phosphorus, mg	500	385
L-Lysine	1.17	0.90	Magnesium, mg	40	31
L-Methionine	0.27	0.21	Iron, mg	10	8
L-Phenylalanine	None	None	Zinc, mg	8	6
L-Proline	1.21	0.93	Manganese, mcg	600	462
L-Serine	0.74	0.57	Copper, mcg	450	346
L-Threonine	0.84	0.65	Iodine, mcg	47	36
L-Tryptophan	0.34	0.26	Molybdenum, mcg	15	12
L-Tyrosine	None	None	Chromium, mcg	15	12
L-Valine	1.1	0.85	Selenium, mcg	15	12
L-Carnitine	0.01	0.01	Sodium, mg (mEq)	120 (5.2)	92 (4.0)
Taurine	0.02	0.02	Potassium, mg (mEq)	420 (10.8)	323 (8.3)
L-Glutamine	0.1	0.08	Chloride, mg (mEq)	290 (8.2)	223 (6.3)

Ingredients:

Corn Syrup Solids, High Oleic Safflower Oil, Refined Vegetable Oil (Coconut, Soy), L-Lysine L-Glutamate, Calcium Phosphate Dibasic, L-Leucine, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, L-Aspartic Acid, Galactose, L-Threonine, Tripotassium Citrate, L-Serine, Calcium Phosphate Monobasic, L-Alanine, L-Histidine, Mono and Diglycerides, L-Cystine, L-Tryptophan, Sodium Chloride, L-Methionine, Magnesium Acetate, Potassium Chloride, Diacetyl Tartaric Acid Esters of Monoglycerides, Tricalcium Citrate, L-Glutamine, Choline Bitartrate, M-Inositol, L-Ascorbic Acid, Soy Lecithin, L-Glutamic Acid, Calcium Phosphate Tribasic, Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Nicotinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Manganese Sulfate, Cupric Sulfate, Vitamin A Acetate, Pyridoxine Hydrochloride, Riboflavin, Thiamin Chloride Hydrochloride, Chromium Sulfate, Potassium Iodide, Folic Acid, Sodium Molybdate, Phylloquinone, Biotin, Sodium Hydrogen Selenite, Vitamin D₃, Cyanocobalamin.



TYR Anamix® Next

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

Main Features:

- Phenylalanine- and tyrosine-free
- Easy to transition from infant formula
- 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 protein equivalent and 12.5 g fat per 100 g of powder
- Available in a plain flavor
- Osmolality (mOsm/kg): 1460 (at 1 kcal/mL)

Indications:

- Tyrosinemia

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
89479	49735-019479	B4162	6 x 400 g (14 oz)	1540

WIC⁺ eligible in all States. For more reimbursement information see page 227.

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) 499 (150)
Protein Equivalent, g	28	10	Vitamin D, IU (mcg)	840 (21) 300 (7.5)
Fat, g	12.5	4.5	Vitamin E, IU (mg α-TE)	12.5 (8.4) 4.5 (3)
Saturates, g	2	0.71	Vitamin K, mcg	14 5
Monounsaturates, g	8.2	2.9	Thiamin, mg	0.93 0.33
Polyunsaturates, g	1.8	0.64	Riboflavin, mg	0.73 0.26
DHA, mg	180	64.3	Vit. B6, mg	0.73 0.26
Carbohydrate, g	43.2	15.4	Vit. B12, mcg	1.3 0.46
Of which Fiber, g	11.2	4	Niacin, mg (NE)	11.3 4
Soluble	8	2.9	Folic Acid, mg	0.21 0.08
Insoluble	3.2	1.1	Pantothenic Acid, mg	4.2 1.5
Amino Acids, g			Biotin, mcg	11.2 4
L-Alanine	4.71	1.7	Vitamin C, mg	42 15
L-Arginine	1.67	0.6	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	1.2	Calcium, mg	980 350
Glycine	3.94	1.4	Phosphorus, mg	641 229
L-Histidine	0.79	0.28	Magnesium, mg	113 40
L-Isoleucine	1.66	0.59	Iron, mg	10 4
L-Leucine	2.52	0.9	Zinc, mg	4.9 1.8
L-Lysine	2.24	0.8	Manganese, mcg	920 329
L-Methionine	0.56	0.2	Copper, mcg	560 200
L-Phenylalanine	None	None	Iodine, mcg	139 50
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	1.1	Selenium, mcg	28.2 10.1
L-Tryptophan	0.56	0.2	Sodium, mg	280 100
L-Tyrosine	None	None	Potassium, mg	445 159
L-Valine	1.96	0.7	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, CAEM (an emulsifier), 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, Thiamin Chloride 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.

**A Source of Docosahexaenoic Acid (DHA)



XPhe, XTyr Maxamaid®

A phenylalanine- and tyrosine-free powdered medical food for the dietary management of tyrosinemia in toddlers and young children.

Main Features:

- Phenylalanine- and tyrosine-free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XPhe, XTyr Maxamaid provides 25 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.

Indications:

- Tyrosinemia, when plasma methionine level is normal

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
117786	49735-0177-86	B4162	6 x 454 g (1 lb)	1471

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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	324	130	Vitamin A, IU (mcg R.E.)	1665 (500)	666 (200)
Protein Equivalent, g	25	10	Vitamin D, IU (mcg)	480 (12)	192 (4.8)
Fat, g	<0.1	0.04	Vitamin E, IU (mg α.T.E.)	14.3 (9.6)	5.7 (3.8)
Carbohydrate, g	56	22	Vitamin K, mcg	48	19
Amino Acids, g					
L-Alanine	1.25	0.50	Thiamin, mg	0.8	0.3
L-Arginine	2.21	0.88	Riboflavin, mg	0.8	0.3
L-Aspartic Acid	1.84	0.74	Vitamin B ₆ , mg	0.8	0.3
L-Cystine	0.82	0.33	Vitamin B ₁₂ , mcg	2	0.8
Glycine	1.96	0.78	Niacin, mg	5	2
L-Histidine	1.26	0.50	Folic Acid, mcg	240	96
L-Isoleucine	1.96	0.78	Pantothenic Acid, mg	3.2	1.3
L-Leucine	3.36	1.34	Biotin, mcg	18	7.2
L-Lysine	2.28	0.91	Vitamin C, mg	62.5	25
L-Methionine	0.54	0.22	Choline, mg	250	100
L-Phenylalanine	None	None	Inositol, mg	56	22
L-Proline	2.38	0.95	Minerals		
L-Serine	1.46	0.58	Calcium, mg	810	324
L-Threonine	1.64	0.66	Phosphorus, mg	810	324
L-Tryptophan	0.66	0.26	Magnesium, mg	128	51
L-Tyrosine	None	None	Iron, mg	14	5.6
L-Valine	2.14	0.86	Zinc, mg	11	4.4
L-Carnitine	0.02	0.01	Manganese, mg	1.9	0.8
Taurine	0.14	0.06	Copper, mcg	1000	400
L-Glutamine	1.5	0.60	Iodine, mcg	144	58
			Molybdenum, mcg	33	13
			Chromium, mcg	21.5	8.6
			Selenium, mcg	40	16
			Sodium, mg (mEq)	580 (25.2)	232 (10)
			Potassium, mg (mEq)	840 (21.5)	336 (8.6)
			Chloride, mg (mEq)	450 (12.9)	180 (5.2)

Ingredients:

Sugar, Corn Syrup Solids, L-Arginine, L-Aspartate, Calcium Phosphate Dibasic, L-Leucine, L-Lysine Acetate, Citric Acid, Tripotassium Citrate, L-Proline, L-Valine, Artificial Flavors, Glycine, L-Isoleucine, L-Threonine, L-Glutamine, L-Serine, L-Alanine, L-Histidine, Maltodextrin, Disodium Hydrogen Phosphate, L-Cystine, Sodium Chloride, Magnesium Acetate, N-Acetyl L-Methionine, Choline Bitartrate, L-Tryptophan, Taurine, Magnesium L-Aspartate, L-Ascorbic Acid, Tricalcium Phosphate, M-Inositol, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Artificial Colors (Beta-Carotene, Beet Red), Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



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 proven tyrosinemia 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 a balanced mixture of essential and non-essential amino acids, carbohydrates, vitamins, minerals and DHA
- Contains 150 mg of DHA per pouch
- Available in mixed berry blast flavor
- Osmolality: 2460 mOsm/kg

Indications:

- Tyrosinemia

For details on administration, please see page 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Pouch
66750	49735-016750	B4157 or B4162	30 X 4.2 fl oz (125 mL)	120

WIC⁺ eligible in all States. For more reimbursement information see page 227.

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

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	120.0	60.0	Vitamin A, IU (mcg R.E.)	949 (285)	475 (143)
Protein Equivalent, g	20.0	10.0	Vitamin D, IU (mcg)	320 (8.0)	160 (4.0)
Fat, g	0.44	0.22	Vitamin E, IU (mg α.T.E.)	4.8 (3.2)	2.4 (1.6)
DHA, mg	150	75.0	Vitamin K, mcg	24.9	12.5
Carbohydrate, g	9.3	4.7	Thiamin, 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	0.9
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 (mmol)	<25.0 (<10)	<12.5 (<5)
			Potassium, mg (mmol)	90 (2.3)	45 (1.2)
			Chloride, mg (mmol)	<25.0 (<10)	<12.5 (<5)

Ingredients:

Water, Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from 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 from 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 (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Artificial Sweetener: Sucralose, Ferrous Lactate, Artificial Sweetener: Acesulfame Potassium, L-Carnitine, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride 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)

Contains 44.1% juice.



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 patients over the age of 1.

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 prevent protein being broken down for energy and toxic metabolites being produced
- Essential micronutrients such as calcium, vitamin D, iron and zinc supplied to compensate for low intake from natural food
- Available in unflavored and vanilla flavor
- Osmolality (at a 1 to 3.5 dilution): 1040 mOsm/kg
- 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 pages 148-165.

Visit NutriciaLearningCenter.com for a practical guide for the use of UCD Anamix Junior.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
59292 - Unflavored	49735-019292	B4157 or B4162	6 X 400 g (14 oz)	1540
59293 - Vanilla	49735-019293	B4157 or B4162	6 X 400 g (14 oz)	1540

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

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 R.E.)	3197 (960)	2664 (800)
Protein Equivalent, g	12.0	10.0	Vitamin D, IU (mcg)	920 (23.0)	767 (19.2)
Fat, g	17.0	14.2	Vitamin E, IU (mg α T.E.)	27.5 (18.5)	22.9 (15.4)
Carbohydrate, g	46.0	38.3	Vitamin K, mcg	92.2	76.8
Amino Acids, g			Thiamin, mg	1.9	1.6
L-Alanine	None	None	Riboflavin, mg	1.5	1.3
L-Arginine	None	None	Vitamin B ₆ , mg	1.5	1.3
L-Asparagine	None	None	Vitamin B ₁₂ , mcg	3.8	3.2
L-Aspartic Acid	None	None	Niacin, mg	9.6	8.0
L-Citrulline	None	None	Folic Acid, mcg	461	384
L-Cystine	0.43	0.36	Pantothenic Acid, mg	6.1	5.1
L-Glutamic Acid	None	None	Biotin, mcg	34.6	28.8
L-Glutamine	None	None	Vitamin C, mg	120	100
Glycine	None	None	Choline, mg	480	400
L-Histidine	0.51	0.43	Inositol, mg	108	90
L-Isoleucine	2.26	1.88	Minerals		
L-Leucine	3.82	3.18	Calcium, mg	1555	1296
L-Lysine	1.92	1.60	Phosphorus, mg	1555	1296
L-Methionine	0.40	0.33	Magnesium, mg	246	205
L-Phenylalanine	0.67	0.56	Iron, mg	26.9	22.4
L-Proline	None	None	Zinc, mg	21.1	17.6
L-Serine	None	None	Manganese, mg	3.6	3.0
L-Threonine	1.59	1.33	Copper, mcg	1900	1583
L-Tryptophan	0.48	0.40	Iodine, mcg	276	230
L-Tyrosine	1.23	1.03	Molybdenum, mcg	63.4	52.8
L-Valine	2.29	1.91	Chromium, mcg	41.3	34.4
L-Carnitine	0.009	0.008	Selenium, mcg	76.8	64.0
Taurine	0.069	0.058	Sodium, mg (mmol)	1114 (48.4)	928 (40.3)
			Potassium, mg (mmol)	1613 (41.3)	1344 (34.4)
			Chloride, mg (mmol)	864 (24.3)	720 (20.3)

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 (An Emulsifier), 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, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Selenite, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.

Vanilla flavored version also contains: Artificial flavor.



Milupa UCD 2

A powdered medical food containing a mixture of essential pure L-amino acids, enriched with vitamins, minerals and trace elements. For the dietary management of urea cycle disorders in children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Essential amino acids
- Concentrated, unflavored powder
- Enriched with vitamins, minerals and trace elements
- Osmolality (at a 1 to 9 dilution): 810 mOsm/kg

Indications:

- Carbamylphosphate synthetase deficiency (CPS) (citrulline or arginine supplementation required)
- Ornithine transcarbamylase deficiency (OTC) (citrulline or arginine supplementation required)
- Citrullinemia or argininosuccinic acid synthetase deficiency (AS) (arginine supplementation required)
- Argininosuccinic acid lyase deficiency (AL) (arginine supplementation required)
- Arginase deficiency

For details on administration and household measurements, please see pages 148-165.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
659361	81361-0936-10	B4155	2 x 500 g (17.6 oz)	1450

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

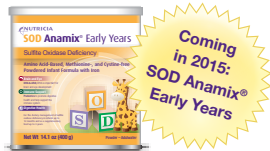
Nutrients	Per 100 g	Per 10 g Protein Equivalent	Protein	
			Per 100 g	Per 10 g Equivalent
Calories	290	43		
Protein Equivalent, g	67	10		
Fat, g	None	None		
Carbohydrate, g	4.4	0.7		
Amino Acids, g			Vitamins	
L-Alanine	None	None	Vitamin A, IU (mcg R.E.)	5200 (1560) 780 (233)
L-Arginine	None	None	Vitamin D, IU (mcg)	1310 (33) 200 (4.9)
L-Aspartic Acid	None	None	Vitamin E, IU (mg α .T.E.)	18 (12) 2.7 (1.8)
L-Cystine	None	None	Vitamin K, mcg	167 25
L-Glutamic Acid	None	None	Thiamin, mg	1.4 0.2
Glycine	None	None	Riboflavin, mg	2 0.3
L-Histidine	3.6	0.54	Vitamin B ₆ , mg	1.5 0.2
L-Isoleucine	8.9	1.33	Vitamin B ₁₂ , mcg	3 0.5
L-Leucine	15.0	2.24	Niacin, mg	24 3.6
L-Lysine	10.7	1.60	Folic Acid, mcg	400 60
L-Methionine	7.1	1.06	Pantothenic Acid, mg	11 1.6
L-Phenylalanine	14.1	2.10	Biotin, mcg	300 45
L-Proline	None	None	Vitamin C, mg	80 12
L-Serine	None	None	Choline, mg	260 39
L-Threonine	7.1	1.06	Inositol, mg	300 45
L-Tryptophan	2.8	0.42	Minerals	
L-Tyrosine	None	None	Calcium, mg	1310 200
L-Valine	10.7	1.60	Phosphorus, mg	1010 151
			Magnesium, mg	None None
			Iron, mg	15 2.2
			Zinc, mg	7.8 1.2
			Manganese, mg	0.7 0.1
			Copper, mcg	2000 300
			Iodine, mcg	120 18
			Molybdenum, mcg	32 5
			Sodium, mg	640 100
			Potassium, mg	1330 200
			Chloride, mg	990 148

Ingredients:

L-Amino Acids (L-Lysine Acetate, L-Leucine, L-Phenylalanine, L-Valine, L-Isoleucine, L-Methionine, L-Threonine, L-Histidine, L-Tryptophan), Sugar, Potassium Phosphate, Calcium Phosphate, Calcium Carbonate, Salt, Choline Bitartrate, M-Inositol, Ascorbic Acid, Ferrous Sulfate, Vanillin, Niacinamide, Vitamin E Acetate, Zinc Sulfate, Calcium-D-Pantothenate, Copper Acetate, Pyridoxine Hydrochloride, Thiamin Hydrochloride, Riboflavin, Manganese Sulfate, Vitamin A Acetate, Biotin, Folic Acid, Potassium Iodide, Vitamin K₁, Ammonium Heptamolybdate, Vitamin D₃, Vitamin B₁₂.

XMet, XCys Analog™

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



Main Features:

- Methionine- and cystine-free
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- XMet, XCys Analog provides 13 g of protein equivalent per 100 g of powder
- Osmolality (at 15% w/v): 353 mOsm/kg

Indications:

- Sulphite oxidase deficiency
- Other conditions requiring restriction of methionine and cystine

For details on administration and household measurements, please see pages 148-165.

Additional Information:

Please note that this product is available by special order only. For detailed information on XMet, XCys Analog, please contact our Nutrition Services Department.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
11653 (Special Order)	49735-0116-53	B4162	2 x 400 g (14 oz)	1900

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. sulphite 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
- XMet, XCys Maxamaid provides 25 g of protein equivalent per 100 g of powder
- Available as unflavored powder
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg):

Dilution	
1 to 5	690
1 to 7	490

Indications:

- Sulphite oxidase deficiency
- Other conditions requiring restriction of methionine and cystine

For details on administration and household measurements, please see pages 148-165.

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.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
116194 (Special Order)	49735-0161-94	B4162	3 x 500 g (17.6 oz)	1545

Household Measurements

Measure	g Product	g Protein Equivalent
Periflex Infant		
1 scoop	4.75	0.62
1 tsp	2	0.26
1 Tbsp	7	0.91
1/4 cup	30	3.9
1/3 cup	35	4.6
1/2 cup	57	7.4
1 cup	114	14.8
PKU Periflex Junior Plus (Plain flavored)		
1 tsp	2.9	0.81
1 Tbsp	8.7	2.4
1/4 cup	34.8	9.7
1/3 cup	46.3	13
1/2 cup:	69.5	19.5
1 cup:	139	38.9
Periflex Advance (Flavored & Unflavored)		
1 tsp	3.1	1.1
1 Tbsp	9.4	3.3
1/4 cup	37.5	13
1/3 cup	50	18
1/2 cup	75	26
1 cup	150	53

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

Measure	g Product	g Protein Equivalent
PhenylAde Essential Drink Mix		
Enclosed scoop	40	10
One pouch	40	10
1 Tablespoon	10	2.5
1/4 cup	40	10
1/2 cup	80	20
1 cup	160	40
PhenylAde40 Drink Mix		
One Pouch	25	10
1 Tablespoon	10	4
1/4 cup	40	16
1/2 cup	80	32
1 cup	160	64
PhenylAde60 Drink Mix		
Enclosed scoop	16.7	10
One pouch	16.7	10
1 Tablespoon	9.8	5.9
1/4 cup	37	22.5
1/2 cup	74	45
1 cup	148	90
PhenylAde Amino Acid Blend		
Enclosed scoop	12.4	10
One pouch	12.4	10
1 Tablespoon	8.5	6.9
1/4 cup	29	23.5
1/2 cup	58	47
1 cup	116	94
PhenylAde MTE Amino Acid Blend		
Enclosed scoop	12.8	10
One pouch	12.8	10
1 Tablespoon	8.5	6.6
1/4 cup	29	22.6
1/2 cup	58	45
1 cup	116	90

Measure	g Product	g Protein Equivalent
Analog Range		
1 scoop	5	0.65
1 Tbsp	8	1.0
1/4 cup	30	3.9
1/2 cup	55	7.2
1 cup	115	15
Maxamaid Range (Flavored & Unflavored)		
1 Tbsp	9	2.3
1/4 cup	35	8.8
1/2 cup	70	18
1 cup	145	36
Maxamum Range (Flavored & Unflavored)		
1 Tbsp	9	3.6
1/4 cup	35	14
1/2 cup	70	28
1 cup	145	58
UCD Anamix Junior Unflavored		
1 scoop	5.0	0.60
1 tsp	3.0	0.36
1 Tbsp	9.0	1.1
1/4 cup	35.8	4.3
1/3 cup	47.7	5.7
1/2 cup	71.5	8.6
1 cup	143	17.2
UCD Anamix Junior Vanilla		
1 scoop	5.0	0.60
1 tsp	2.9	0.35
1 Tbsp	8.7	1.0
1/4 cup	34.8	4.2
1/3 cup	46.3	5.6
1/2 cup	69.5	8.3
1 cup	139	16.7

Measure	g Product	g Protein Equivalent
TYR Anamix Next		
1 tsp	2.9	0.81
1 Tbsp	8.6	2.4
1/4 cup	34.3	9.6
1/3 cup	45.7	12.8
1/2 cup	68.5	19.2
1 cup	137	38.4
GlutarAde Junior GA-1 Drink Mix		
1 Tablespoon	9.3	0.93
Enclosed scoop	9.8	0.98
1/4 cup	36	3.6
1/2 cup	73	7.3
1 cup	146	14.6
GlutarAde Essential GA-1 Drink Mix		
1 Tablespoon	10	2.5
1/4 cup	40	10
Enclosed scoop	40	10
1/2 cup	80	20
1 cup	160	40
GlutarAde GA-1 Amino Acid Blend		
1 Tablespoon	8.5	6.9
Enclosed scoop	12.3	10
1/4 cup	29	23.5
1/2 cup	58	47
1 cup	116	94

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

Household Measurements

Measure	g Product	g Protein Equivalent
Complex Junior MSD Drink Mix		
1 Tablespoon	8.4	1.1
Enclosed scoop	8.5	1.1
1/4 Cup	29	3.8
1/2 Cup	59	7.6
1 Cup	118	15.2
Complex Essential MSD Drink Mix		
1 Tablespoon	9.8	2.4
1/4 Cup	40	10
Enclosed scoop	40	10
1/2 Cup	80	20
1 Cup	160	40
Complex MSD Amino Acid Blend		
1 Tablespoon	8.2	6.6
Enclosed scoop	12.4	10
1/4 Cup	31	25
1/2 Cup	62	50
1 Cup	124	100
Milupa PKU 2		
1 Tbsp	9	6
1/4 Cup	35	24
1/3 Cup	50	34
1/2 Cup	80	54
1 Cup	160	107

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

Measure	g Product	g Protein Equivalent
Milupa PKU 3		
1 Tbsp	8.5	6
1/4 Cup	35	24
1/3 Cup	50	34
1/2 Cup	80	54
1 Cup	155	105
Milupa HOM 2		
1 Tbsp	9	6
1/4 Cup	37	24
1/3 Cup	50	35
1/2 Cup	82	55
1 Cup	161	110
Milupa MSUD 2		
1 Tbsp	10	5
1/4 Cup	40	22
1/3 Cup	50	27
1/2 Cup	85	46
1 Cup	175	95
Milupa OS 2		
1 Tbsp	9	5
1/4 Cup	40	22
1/3 Cup	50	28
1/2 Cup	80	45
1 Cup	160	90
Milupa UCD 2		
1 Tbsp	8	5
1/4 Cup	34	24
1/3 Cup	45	30
1/2 Cup	74	50
1 Cup	146	97

Periflex[®] Infant

Infant formula containing iron, DHA & ARA, for the dietary management of phenylketonuria.

Administration:

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

Mixing Instructions:

- For standard dilution (20 kcal/fl oz), mix one unpacked level scoop (4.75 g) per fluid ounce of prepared formula. For accuracy, Periflex Infant should be weighed on a gram scale.
- Periflex Infant may be mixed with warm or cool sterile water.* Do not boil formula or use a microwave to prepare or warm formula.

To make a 5 fluid ounce bottle:

- Add 5 level scoops of Periflex Infant to a clean, sterile* container.
- Fill up to the 5 fluid ounce line with warm or cool sterile* water.
- Shake for 15-20 seconds or until the powder dissolves. Add additional water if necessary to make final volume and shake again.

Desired Volume	Amount of Powder	Water Added	Approx. Protein Equiv.
8 fl oz	8 scoops (38 g)	7 fl oz (213 mL)	4.9 g
12 fl oz	12 scoops (57 g)	11 fl oz (320 mL)	7.4 g
24 fl oz	24 scoops (114 g)	21 fl oz (640 mL)	14.8 g

Freshly prepared formula is best. Refrigerate pre-mixed formula immediately and use within 24 hours of mixing. Shake immediately before use. Formula remaining in the bottle one hour after feeding should be discarded. Tube feeding hang time not to exceed 4 hours.

* Boiling is the preferred method for sterilizing water, bottles, nipples and mixing utensils.

Precautions:

- Do not boil formula. Do not use a microwave oven to prepare or warm formula.
- Must only be given under strict medical supervision to infants with a proven phenylketonuria (PKU). Not intended as the sole source of nutrition. Not for parenteral use.

Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not refrigerator) and use within one month of opening.

PKU Periflex[®] Junior Plus

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

Administration:

- PKU Periflex Junior Plus must be consumed in conjunction with natural protein and other nutrients in quantities prescribed by a dietitian or physician to supply the phenylalanine, fluid and general nutrition requirements.
- Intended for toddlers and younger children
- 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:

- 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. Periflex is 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).

Dilution (kcal/mL)	Amount of Powder	Water Added	Final Volume
0.6	18 g (approx 2 scoops)	3.5 fl oz (100 mL)	3.9 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)	4.3 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. Tube feeding hang time not to exceed 4 hours.

Precautions:

- Must only be consumed by individuals with proven phenylketonuria. Not intended for infants. Not intended as sole source of nutrition. Not for parenteral use.

Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not refrigerator) and use within 14 days of opening.

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:

- Use only under the direction of a physician or dietitian. Periflex must be consumed in conjunction with natural 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:

- 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 tables below. Periflex 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.
- Periflex LQ: Shake well before use. Best served chilled.

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

- 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.

Precautions:

- Must only be consumed by individuals with proven phenylketonuria. Not intended for infants. Not intended as the sole source of nutrition. Not for parenteral use.

Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month of opening.
- Store Periflex LQ in a cool dry place away from sunlight.

Analog[™]

Infant formulas for the dietary management of metabolic disorders.

Administration:

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

Mixing Instructions:

1. Wash hands thoroughly and clean preparation area. Sterilize bottle feeding system.
2. Boil water for 5 minutes and allow to cool for at least 30 minutes so that it feels warm to the wrist.
3. Add the prescribed amount of Analog powder and a protein source to the sterilized feeding bottle. For accuracy, Analog should be weighed on a gram scale. If using the provided scoop, fill it and level off with a clean, dry knife. Do not press the powder into the scoop.
4. Pour the required amount of cooled, boiled water into feeding bottle. To make the recommended dilution (21 kcal/fl oz), Analog requires 1 fl oz (30 mL) of water for every 5 g (1 unpacked, level

scoop) of powder. Place cap on bottle and shake until powder has dissolved.

5. Make sure the formula is lukewarm by placing a few drops on your wrist.

Formula prepared in advance must be cooled rapidly, stored in the refrigerator (35°F to 40°F) and used within 24 hours of preparation. Shake immediately before use. Formula remaining in the bottle after one hour of feeding should be discarded. Tube feeding “hang time” should not exceed 4 hours.

Caution:

- Do not boil formula. Do not use a microwave oven to prepare or warm formula.

Precautions:

- Must only be given under strict medical supervision to infants with a proven metabolic disorder. Not intended as the sole source of nutrition. Not for parenteral use.

Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not refrigerator) and use within one month of opening.

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.

Maxamaid® and Maxamum®

Age-specific medical foods for the dietary management of metabolic disorders in individuals over 1 year of age, including pregnant women and women of child-bearing age.

Administration:

- Must be consumed in conjunction with natural 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 on a gram scale. The daily intake should be divided into equal portions and distributed throughout the day.
- Maxamaid products are intended for toddlers and younger children; Maxamum products are intended for older children and adults, including pregnant women and women of child-bearing age.

Mixing Instructions:

- Best served with meals.
- **Maxamaid and Maxamum Powders:** 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.
- It is recommended that Maxamaid and Maxamum be prepared at a 1 to 7 dilution initially and

Dilution Guidelines for Maxamaid

Dilution	Amount of Powder	Volume of Water	Approx. PE
1 to 7	35 g	245 mL (approx. 8 fl oz)	8.8 g
1 to 5	35 g	175 mL (approx. 6 fl oz)	8.8 g

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 sachet (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 sachet (50 g)	250 mL (approx. 8 fl oz)	20 g

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 phenylketonuria. Not intended for children under one year of age. Not suitable as the sole source of nutrition. Not for parenteral use.

Storage:

- Store unopened cans/sachets at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month.

PhenylAde™: Essential, 40, 60 and Amino Acid Blends

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

Administration:

- Use only under the direction of a physician or dietitian. PhenylAde must be consumed in conjunction with natural 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 about 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.

- **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**

Simply 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 be consumed by individuals with proven phenylketonuria. Not intended for infants. Not intended as the sole source of nutrition. Not for parenteral use.

Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month of opening.

Phlexy-10[®] System

An interchangeable system of phenylalanine-free medical foods for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age, including pregnant women and women of child-bearing age.

Administration:

- The Phlexy-10 products must be consumed in conjunction with natural 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 the 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, 20 capsules or 10 tablets provide 10 g of amino acids, equivalent to 8.33 g of protein.
- The Phlexy-10 products do not contain vitamins, minerals, or trace elements. It is essential that these nutrients are supplied separately. Phlexy-Vits (see pages 210-211) are available to be used as a supplement to the Phlexy-10 System. One 7 g packet supplies the majority of vitamins and minerals needed to meet the RDA of individuals 11 years and older.

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).
- **Phlexy-10 Tablets and Phlexy-10 Capsules:** These products should be taken with water or a non-phenylalanine-containing 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. Not for parenteral use.

Storage:

- Phlexy-10 Drink Mix, Phlexy-10 Tablets and Phlexy-10 Capsules should be stored in a cool, dry place. Once reconstituted, Phlexy-10 Drink Mix should be stored in a refrigerator and must be used within 24 hours of preparation. Once Phlexy-10 Capsules or Phlexy-10 Tablets are opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month.

Lanaflex[®] and PhenylAde[™] PheBLOC[™] LNAA

Phenylalanine-free powdered medical foods 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:

- Use only under the direction of a physician or dietitian. The product must be consumed in conjunction with natural 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:

Lanaflex

- It is recommended that the product is prepared at an approximate 1 to 4 dilution. In a screw top container, add 60 mL (2 fl oz or 1/4 cup) of chilled water. Add the contents of one sachet and shake well until dissolved. The product is best consumed immediately.
- If taken in a more concentrated form, water or diluted drinks should be consumed immediately afterwards.
- Opened sachets should be stored in an airtight container and used within 24 hours.

PhenylAde PheBLOC LNAA

- Add contents of 1 pouch (3 g) to ~1/2 cup of any semi-solid food (i.e., applesauce, mashed potatoes, pudding, sorbet, etc).

Precautions:

- Must only be consumed by individuals with proven phenylketonuria. Suitable for individuals over 12 years of age. Not suitable as the sole source of nutrition. 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 sachets in a cool, dry place.

Visit [NutriciaLearningCenter.com](https://www.nutricialearningcenter.com) for guidelines on the usage of Lanaflex

Lophlex[®] Powder and Lophlex[®] LQ

A low volume, amino acid-based medical food for the dietary management of metabolic disorders in children and adults, including pregnant women and women of child-bearing age.

Administration:

- Use only under the direction of a physician or dietitian. Lophlex and Lophlex LQ must be consumed in conjunction with natural 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.

Preparation (Lophlex LQ)

- Lophlex LQ is ready-to-drink and tastes best when served chilled. Shake vigorously before use.

Mixing Instructions (Lophlex):

- Mix the contents of one sachet with a small amount of water to make a paste. Continue stirring while adding water to make up a final volume of approximately 70 mL (2.5 fl oz). This would be 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.

Precautions:

- Must only be given under strict medical supervision in individuals with a proven metabolic disorder. Not intended as a sole source of nutrition. Not for parenteral use.

Storage:

- Store in a cool, dry place, below 86°F (not in the refrigerator) and away from sunlight.

TYR Anamix[®] Next

Phenylalanine-, and tyrosine-free medical food for the dietary management of tyrosinemia (TYR) in children over 1 year of age.

Administration:

- TYR Anamix Next must be consumed in conjunction with natural protein and other nutrients in quantities prescribed by a dietitian or physician to supply the phenylalanine, fluid and general nutrition requirements.
- Intended for individuals over 1 year of age.
- Intake of Anamix is dependent on the age, body weight and medical condition of the individual. Anamix 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. Anamix is 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).

Dilution (kcal/mL)	Amount of Powder	Water Added	Final Volume
0.6	18 g (approx 2 scoops)	3.5 fl oz (100 mL)	3.9 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)	4.3 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. Tube feeding hang time not to exceed 4 hours.

Precautions:

- Must only be consumed by individuals with proven tyrosinemia. Not intended for infants. Not intended as sole source of nutrition. Not for parenteral use.

Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not refrigerator) and use within 14 days of opening.

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 woman of child-bearing age.

Administration:

- Use only under the direction of a physician or dietitian. Complex must be consumed in conjunction with natural protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet the branched-chain and general nutrient requirements.

Mixing Instructions:

- Add prescribed amount of Complex Powder to cold water, shake or stir until completely mixed together.
- Dilution may be adjusted to taste. See recommended dilution below for a guideline.
- 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 about 130°F.

Recommended Dilution:

- Complex Junior MSD Drink Mix**

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

To Make Approx.	Water	Amount of Powder
2 fl oz (60 mL)	2 fl oz (60 mL)	8.5 g
4 fl oz (120 mL)	4 fl oz (120 mL)	17 g
6 fl oz (180 mL)	6 fl oz (180 mL)	26 g
8 fl oz (240 mL)	8 fl oz (240 mL)	34 g

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

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

To Make Approx.	Water	Amount of Powder
2 fl oz (60 mL)	2 fl oz (60 mL)	12.2 g
4 fl oz (120 mL)	4 fl oz (120 mL)	24.3 g
6 fl oz (180 mL)	6 fl oz (180 mL)	36.5 g
8 fl oz (240 mL)	8 fl oz (240 mL)	48.6 g

- Complex Essential MSD Drink Mix**

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

- Complex MSD Amino Acid Blend**

Simply add one serving to single portion of low protein food, beverage or other MSUD 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 be consumed by individuals with proven maple syrup urine disease. Not intended for infants. Not intended as the sole source of nutrition. Not for parenteral use.

Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month of opening.

GlutarAde™ GA-1: 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 woman of child-bearing age.

Administration:

- Use only under the direction of a physician or dietitian. GlutarAde must be consumed in conjunction with natural 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 recommended dilution below for a guideline.
- 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 about 130°F.

Recommended Dilution

- GlutarAde Junior GA-1 Drink Mix**

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

To Make Approx.	Water	Amount of Powder
2 fl oz (60 mL)	2 fl oz (60 mL)	9.8 g
4 fl oz (120 mL)	4 fl oz (120 mL)	19.5 g
6 fl oz (180 mL)	6 fl oz (180 mL)	29 g
8 fl oz (240 mL)	8 fl oz (240 mL)	39 g

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

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

To Make Approx.	Water	Amount of Powder
2 fl oz (60 mL)	2 fl oz (60 mL)	14.7 g
4 fl oz (120 mL)	4 fl oz (120 mL)	29.4 g
6 fl oz (180 mL)	6 fl oz (180 mL)	44.1 g
8 fl oz (240 mL)	8 fl oz (240 mL)	58.8 g

- GlutarAde GA-1 Essential Drink Mix**

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

- GlutarAde GA-1 Amino Acid Blend**

Simply add one serving to single portion of low protein food, beverage or other GA-1 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 be consumed by individuals with proven glutaric aciduria type 1. Not intended for infants. Not intended as the sole source of nutrition. Not for parenteral use.

Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month of opening.

UCD Anamix® Junior

Age-specific medical food for the dietary management of urea cycle disorders in individuals over 1 year of age.

Administration:

- Must be consumed in conjunction with natural protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet protein and general nutrition requirements.
- Recommended intake of UCD Anamix Junior is dependent on age, body weight and medical condition of the individual. Intake is adjusted to maintain normal growth and development. For accuracy, weigh on a gram scale. The daily intake should be divided into equal portions and distributed throughout the day.
- UCD Anamix Junior is intended 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.

Visit NutriciaLearningCenter.com for a practical guide for the use of UCD Anamix Junior.

- It is recommended that UCD Anamix Junior be prepared at a 1 to 3.5 dilution. This dilution 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.

Dilution Guidelines for UCD Anamix Junior

Dilution	Amount of Powder	Volume of Water	Approx. PE
1 to 3.5	50 g (10 scoops)	175 mL (approx. 6 fl oz)	6.0 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. Not for parenteral use.

Storage:

- Once reconstituted store in a refrigerator and use within 24 hours.
- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month.

Milupa

Milupa products are used for the dietary management of inborn errors of amino acid metabolism.

Milupa Stage 2 and 3 Products

Administration:

- The amount of Milupa needed to supplement total daily protein requirements depends on age, body weight, and individual tolerance. The dose of Milupa must be determined by a physician or dietitian and adjusted periodically.
- The daily amount required should be divided into 3 to 5 single portions and can be taken mixed with calculated amounts of other food (e.g. beverages, fruit mousse, solid foods). For accuracy, Milupa should be weighed on a gram scale.

Precaution:

- Must be used under medical supervision
- For individuals over one year of age with a proven metabolic disorder
- Not suitable as a sole source of nutrition
- Not for parenteral use

Storage:

- Store unopened cans at room temperature. Do not store at extreme temperatures. After opening, keep can tightly covered and store in a cool, dry place (not in the refrigerator) and use within four weeks.



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



Loprofin, Milupa & Wel-Plan® Low Protein Foods

A line of low protein foods including: baking mixes, cake mix, pasta, rice, cereals, drink mix, cookies, energy bars, and other snacks.

Main Features:

- A wide range of products to add variety to a protein-restricted diet

Indications:

- Dietary management of inherited metabolic disorders
- Renal or liver failure requiring a low protein diet
- Other medical conditions where a low protein diet is indicated

For more information, visit www.MedicalFood.com



Maddy's® Low Protein Foods

A line of low protein foods including baking mixes, cake mixes and other snacks.

Main Features:

- A wide range of products to add variety to a protein-restricted diet

Indications:

- Dietary management of inherited metabolic disorders
- Renal or liver failure requiring a low protein diet
- Other medical conditions where a low protein diet is indicated

For more information, visit www.DietForLife.com



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 intractable epilepsy and other medical conditions where the ketogenic diet is indicated; designed for individuals over 1 year of age. A medical food.

Main Features:

- Nutritionally complete
- DHA and ARA
- 3:1 ratio, which supports earlier initiation of the diet
- Unflavored
- Nutrient dense for children with low energy requirements
- Convenient one step preparation with a non-modular approach
- Appropriate for enteral or oral feedings
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL)
150 mOsm/kg
- No artificial sweeteners
- Energy distribution:

Protein	8.8%
Carbohydrate	4.1%
Fat (LCT 100%)	87.1%
- Displacement
1 mL/g

Indications:

- Intractable epilepsy
- Pyruvate dehydrogenase deficiency (PDH)
- Glucose transporter type-1 deficiency (GLUT1)
- Other disorders where the ketogenic diet is indicated

For details on administration, please see pages 178-179.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
16672	49735-0166-72	B4154	6 x 300 g (11 oz)	2097

WIC⁺ eligible in all States.

For more US reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal*	Minerals	Per 100 g	Per 100 kcal*
Calories	699	100	Calcium, mg	760	109
Protein, g	15.3	2.2	Phosphorus, mg	510	73.0
Carbohydrate, g	7.2	1.0	Magnesium, mg	0.57	0.08
Fat, g	67.7	9.7	Iron, mg	10.9	1.6
Linoleic Acid, mg	12700	1817	Zinc, mg	7.4	1.1
α -Linolenic Acid, mg	1481	212	Manganese, mg	570	81.5
DHA, mg	116	16.6	Copper, mcg	760	109
AHA, mg	116	16.6	Iodine, mcg	124	17.7
Vitamins			Molybdenum, mcg	31.3	4.5
Vitamin A, IU (mcg RE)	1748 (525)	250 (75.1)	Chromium, mcg	26.2	3.7
Vitamin D, IU (mcg)	508 (12.7)	72.7 (1.8)	Selenium, mcg	18.9	2.7
Vitamin E, IU (mg α TE)	11.8 (7.9)	1.7 (1.1)	Sodium, mg (mEq)	287 (12.5)	41.0 (1.8)
Vitamin K, mcg	55.9	8.0	Potassium, mg (mEq)	900 (23.1)	129 (3.3)
Thiamin, mg	0.89	0.13	Chloride, mg (mEq)	440 (12.6)	62.9 (1.8)
Riboflavin, mg	0.70	0.10	L-Carnitine, mg	50.0	7.2
Vitamin B ₆ , mg	0.70	0.10	Taurine, mg	48.0	6.9
Vitamin B ₁₂ , mcg	1.4	0.20			
Niacin, mg	4.9	0.70			
Folic Acid, mcg	140	20			
Pantothenic Acid, mg	2.8	0.40			
Biotin, mcg	13.9	2.0			
Vitamin C, mg	84.0	12.0			
Choline, mg	180	25.8			
Inositol, mg	153	21.9			

*Standard Dilution = 30 kcal/fl oz

Ingredients:

Refined Vegetable Oils (Palm, Soy, Sunflower), Milk Protein (Casein, Whey), Lactose (Milk), Tricalcium Phosphate, Tripotassium Citrate, Corn Syrup Solids, Potassium Chloride, Calcium Phosphate Dibasic, Magnesium Acetate, Choline Bitartrate, L-Cystine, M. Alpina Oil*, C. Cohnii Oil**, L-Tryptophan, M-Inositol, Ferrous Sulfate, Sodium Caseinate (Milk), Sodium Chloride, Sodium Ascorbate, L-Ascorbic Acid, L-Carnitine, Taurine, Mono and Diglycerides, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Niacinamide, Soy Lecithin, Calcium D-Pantothenate, Cupric Sulfate, Manganese Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Folic Acid, Ascorbyl Palmitate, Mixed Tocopherols, Chromium Chloride, Sodium Molybdate, Phylloquinone, Sodium Selenite, D-Biotin, Vitamin D₃, Cyanocobalamin.

*A Source of Arachidonic Acid (ARA)


**A Source of Docosahexaenoic Acid (DHA)



KetoCal® 4:1 Powder

A nutritionally complete, ketogenic formula in a 4:1 ratio (fat:carbohydrate + protein) for the dietary management of intractable epilepsy; designed for individuals over 1 year of age. A medical food.

Main Features:

- Nutritionally complete
- 4:1 ratio
- Vanilla flavor
- Convenient one step preparation with a non-modular approach
- DHA and ARA
- Contains multi-fiber blend 
- No *trans* fat
- Aspartame-free (contains sucralose)
- Nutrient dense for children with low energy requirements
- Appropriate for enteral or oral feedings
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL): 170 mOsm/kg
- Energy distribution:

Protein	8.2%
Carbohydrate	3.1%
Fiber	1.5%
Fat (LCT 100%)	88.7%
- Displacement 1 mL/g

Indications:

- Intractable epilepsy
- Pyruvate dehydrogenase deficiency (PDH)
- Glucose transporter type-1 deficiency (GLUT1)
- Other disorders where the ketogenic diet is indicated

For details on administration, please see pages 178-179.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
82286	49735-0166-70	B4154	6 x 300 g (11 oz)	2103

WIC⁺ eligible in all States.

For more US reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal	Minerals	Per 100 g	Per 100 kcal
Calories	701	100	Calcium, mg	771	110
Protein, g	14.4	2.1	Phosphorus, mg	600	85.6
Carbohydrate, g	8.1	1.2	Magnesium, mg	106	15.1
Dietary Fiber, g	5.3	0.75	Iron, mg	7.0	1.0
Soluble, g	2.6	0.38	Zinc, mg	5.7	0.81
Insoluble, g	2.6	0.38	Manganese, mg	0.84	0.12
Fat, g	69.1	9.9	Copper, mcg	580	82.7
Saturated, g	24.9	3.6	Iodine, mcg	86.2	12.3
Monounsaturated, g	20.8	3.0	Molybdenum, mcg	28.7	4.1
Polyunsaturated, g	20.4	2.9	Chromium, mcg	14.7	2.1
DHA, mg	119	17.0	Selenium, mcg	32.9	4.7
ARA, mg	119	17.0	Sodium, mg (mEq)	480 (20.9)	68.5 (2.97)
Vitamins			Potassium, mg (mEq)	771 (19.8)	110 (2.8)
Vitamin A, IU (mcg)	1232 (370)	176 (52.8)	Chloride, mg (mEq)	722 (20.4)	103 (2.9)
Vitamin D ₃ , IU (mcg)	420 (10.5)	59.9 (1.5)	L-Carnitine, mg	45.0	6.4
Vitamin E, IU (mg α T.E.)	10.7 (7.2)	1.5 (1.0)	Taurine, mg	33.0	4.7
Vitamin K, mcg	26.3	3.8			
Thiamin, mg	0.89	0.13			
Riboflavin, mg	0.70	0.10			
Vitamin B ₆ , mg	0.70	0.10			
Vitamin B ₁₂ , mcg	0.77	0.11			
Niacin, mg	7.0	1.0			
Folic Acid, mcg	134	19.1			
Pantothenic Acid, mg	2.9	0.41			
Biotin, mcg	19.1	2.7			
Vitamin C, mg	43.5	6.2			
Choline, mg	330	47.1			
Inositol, mg	19.1	2.7			

Fiber is not included in calculating the ketogenic ratio.

Ingredients:


Refined Vegetable Oils (Palm, Soy, Sunflower), Milk Protein (Casein, Whey), Soy Lecithin, Soy Fiber, Tricalcium Phosphate, Tripotassium Citrate, Arabic Gum, Inulin, Corn Syrup Solids, Sodium Chloride, Magnesium Acetate, Microcrystalline Cellulose, Calcium Chloride, Fructo-oligosaccharides, Corn Starch, Artificial Flavor, Calcium Lactate, L-Cystine, M. Alpina Oil*, C. Cohnii Oil**, Choline Bitartrate, L-Tryptophan, Sodium Caseinate (Milk), Silicon Dioxide, Potassium Chloride, Ferrous Sulfate, Sodium Ascorbate, L-Phenylalanine, Natural Flavor, L-Valine, L-Tyrosine, L-Carnitine, Taurine, L-Ascorbic Acid, M-Inositol, Mono and Diglycerides, L-Histidine, Zinc Sulfate, Artificial Sweetener: Sucralose, DL-alpha Tocopheryl Acetate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Copper Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Ascorbyl Palmitate, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.



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 intractable epilepsy; designed for individuals over 1 year of age. A medical food.

Main Features:

- Nutritionally complete
- 4:1 ratio
- Convenient ready-to-feed liquid
- Great vanilla flavor or unflavored
- Contains a multi-fiber blend of insoluble and soluble fiber 
- DHA and ARA
- Appropriate for enteral or oral feedings
- No *trans* fat
- Aspartame-free (contains sucralose)
- Nutrient dense for children with low energy requirements
- Osmolality (at 1.5 kcal/mL):

Vanilla	260 mOsm/kg
Unflavored	280 mOsm/kg
- 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:

- Intractable epilepsy
- Pyruvate dehydrogenase deficiency (PDH)
- Glucose transporter type-1 deficiency (GLUT1DS)
- Other disorders where the ketogenic diet is indicated

For details on administration, please see pages 178-179.

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Box
80180 – Vanilla	49735-0187-96	B4154	27 x 237 mL (8 fl oz)	356
80183 – Unflavored	49735-0130-54	B4154	27 x 237 mL (8 fl oz)	356

WIC⁺ eligible in all States.

For more US reimbursement information see page 227.

Nutrition Information:

Nutrients	Per Tetra Pak (237 mL)		Minerals, Trace Elements	Per Tetra Pak (237 mL)	
	Per 100 mL	Per Tetra Pak (237 mL)		Per 100 mL	Per Tetra Pak (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	1.2	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	131	Potassium, mg (mEq)	165 (4.2)	391 (10.02)
ARA, mg	55	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 R.E.)	264 (79.2)	626 (188)
			Vitamin D, IU (mcg)	92.0 (2.3)	220 (5.5)
			Vitamin E, IU (mg α T.E.)	2.3 (1.5)	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 not included in 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, CAEM (an Emulsifier), Dipotassium Phosphate, Gum Arabic, Calcium Chloride, M. Alpina Oil*, Magnesium Acetate, Potassium Chloride, C. Cohnii Oil**, Microcrystalline Cellulose, Fructooligosaccharide, L-Ascorbic Acid, Calcium Phosphate Monobasic, Mono and Diglycerides, Trisodium Citrate, Sodium Hydroxide, Choline Chloride, L-Cystine, Calcium Phosphate Dibasic, Propylene Glycol Alginate, Ferrous Lactate, L-Carnitine, Taurine, M-Inositol, L-Tryptophan, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Soy Lecithin, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Ascorbyl Palmitate, Cupric Sulfate, 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.

Unflavored version also contains: Sugar.

Vanilla flavored version also contains: Artificial Flavor, Sugar, Artificial Sweetener, Sucralose, Sodium Hydroxide, Choline Chloride.

*A Source of Arachidonic Acid (ARA)

**A Source of Docosahexaenoic Acid (DHA)

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:

1. For oral feeding, best served chilled and consumed immediately.
2. For tube feeding, hang time not to exceed 4 hours. It is recommended that the tube is flushed with lukewarm water (approximately 98°F or 37°C) between each feed.
3. Do not boil or microwave formula.
4. Do not freeze. Recommended storage between 39°F-77°F (4°C-25°C).
5. 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	89 mL	100 mL	130 mOsm/kg
30 kcal/fl oz	14.3 g	86 mL	100 mL	170 mOsm/kg
45 kcal/fl oz	21.4 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	9.5 g	90 mL	100 mL	100 mOsm/kg
24 kcal/fl oz	11.4 g	89 mL	100 mL	120 mOsm/kg
30 kcal/fl oz	14.3 g	86 mL	100 mL	150 mOsm/kg
45 kcal/fl oz	21.4 g	79 mL	100 mL	240 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, reseal and store in a cool, dry place (not in a refrigerator) and 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)	
		Cans/mo	Cases/mo	Cans/mo	Cases/mo	Tetras/mo	Cases/mo
600	18000	9	2	9	2	51	2
700	21000	10	2	11	2	59	3
800	24000	12	2	12	2	68	3
900	27000	13	3	13	3	76	3
1000	30000	15	3	15	3	85	4
1100	33000	16	3	16	3	93	4
1200	36000	18	3	18	3	102	4
1300	39000	19	4	19	4	110	5
1400	42000	20	4	21	4	118	5
1500	45000	22	4	22	4	127	5
1600	48000	23	4	23	4	135	5
1700	51000	25	5	25	5	144	6
1800	54000	26	5	26	5	152	6
1900	57000	28	5	28	5	161	6
2000	60000	29	5	29	5	169	7

*Number of cans and cases per month are rounded up to the nearest whole number.

Caution:

1. Do not boil or microwave formula.
2. Monitor for hypoglycemia, renal stones, hyperlipidemia, and adequate growth.

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.



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
- Sugar free
- High in conditionally indispensable amino acids needed for recovery⁵⁻¹⁰
- Available in 4 great tasting flavors
- Available in bottles (6/case) or unit doses (96/case)
- Nectar-like viscosity
- Lactose free, gluten free, and soy free
- Kosher
- For oral and enteral use

Indications:

- Increased protein needs in low volume related to:
 - Stage 1 & 2 pressure ulcers
 - 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
10064 - Wild Cherry Punch (bottle)	26974-0410-07	B4155	6 x 30 fl oz	3000
30064 - Citrus Splash (bottle)	26974-0300-64	B4155	6 x 30 fl oz	3000
40064 - Vanilla (bottle)	26974-0410-40	B4155	6 x 30 fl oz	3000
50064 - Grape (bottle)	26974-0410-50	B4155	6 x 30 fl oz	3000
10464-U - Wild Cherry Punch (unit)	26974-0410-17	B4155	96 x 1 fl oz	100
30464-U - Citrus Splash (unit)	26974-0410-64	B4155	96 x 1 fl oz	100
40464-U - Vanilla (unit)	26974-0410-42	B4155	96 x 1 fl oz	100
50464-U - Grape (unit)	26974-0410-52	B4155	96 x 1 fl oz	100

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Calories	100
Protein, g	15.0
Fat, g	0
Carbohydrate, g	10.0
Minerals	
Sodium, mg	50.0
Potassium, mg	20.0
Phosphorus, mg	50.0

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.

Suggested intake: 1-3 servings per day.

Administer orally or through feeding tube. Not suitable for use as a sole source of nutrition. Not for parenteral use.

Oral Feeding:

Can be taken straight or mixed with any hot or cold beverages or food.

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 with disposable spoon or tongue blade
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.

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 et al. *Journal of Renal Nutrition*. 2009;19:412-421. 3. Hays et al. *J Am Diet Assoc*. 2009;109:1082-1087. 4. Koopman. R et al. *Am J Clin Nutr*. 2009. 5. Morris SM. *Annu Rev Nutrition*. 1992. 6. Curis E et al. *Amino Acids*. 2005. 7. Wu GY, Brosnan JT. *Biochem J*. 1992. 8. Schwedhelm E, et al. *Br J Clin Pharmacol*. 2008. 9. Waugh WH et al. *Am J Haematol*. 1999. 10. Waugh WH et al. *J Natl Med Ass*. 2001.



Pro-Stat® Sugar Free 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 shown in one study to promote pressure ulcer and wound healing¹
- Nutrient dense, providing 17 g of protein and 100 calories per 1 fl oz
- Contains 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
- Available in 2 great tasting flavors
- Available in bottles (6/case) or unit doses (96/case)
- Honey-like viscosity
- Lactose free, gluten free, and soy free
- Kosher
- For oral and enteral use

Indications:

- Increased protein needs in low volume related to:
 - Stage 3 & 4 pressure ulcers
 - Multiple pressure ulcers
 - 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
40130 - Wild Cherry Punch (bottle)	26974-0410-30	B4155	4 x 30 fl oz	3000
40230 - Citrus Splash (bottle)	26974-0410-23	B4155	4 x 30 fl oz	3000
40130-U - Wild Cherry Punch (unit)	26974-0410-31	B4155	96 x 1 fl oz	100
40230-U - Citrus Splash (unit)	26974-0410-24	B4155	96 x 1 fl oz	100

1. Lee SK et al. *Adv Skin Wound Care*. 2006. 2. Koopman, R et al. *Am J Clin Nutr*. 2009. 3. Morris SM. *Annu Rev Nutrition*. 1992. 4. Curis E et al. *Amino Acids*. 2005. 5. Wu GY & Brosnan JT. *Biochem J*. 1992. 6. Schwedhelm E, et al. *Br J Clin Pharmacol*. 2008. 7. Waugh WH et al. *Am J Haematol*. 1999. 8. Waugh WH et al. *J Natl Med Ass*. 2001.

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Calories	100
Protein, g	17.0
L-Arginine, g	3.3
Fat, g	0
Carbohydrate, g	7.0
Vitamins	
Vitamin C, mg	175.0
Minerals	
Zinc, mg	10.0
Sodium, mg	50.0
Potassium, mg	20.0
Phosphorus, mg	50.0

Ingredients:

Hydrolyzed Collagen Protein, Water, Glycerin, Malic Acid, L-Arginine. Contains 2% or less: L-Citrulline, L-Tryptophan, L-Cysteine HCL, Phosphoric Acid, Ascorbic Acid, Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor), Sucralose, Zinc Sulfate.

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.

Suggested intake: 1-3 servings per day.

Administer orally or through feeding tube. Not suitable for use as a sole source of nutrition. Not for parenteral use.

Oral Feeding:

Can be taken straight or mixed with any hot or cold beverages or food.

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 with disposable spoon or tongue blade
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.

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
- Available in great tasting grape flavor
- Available in bottles (4/case) and unit doses (96/case)
- Nectar-like viscosity
- Gluten free and soy free
- For oral and enteral use

Indications:

- Increased protein needs in low volume related to:
 - Pressure ulcers
 - Wounds (diabetic, venous, surgical, burns)
 - Critical illness**
 - Unintentional muscle loss
 - Protein-Energy Malnutrition
 - Low serum proteins
 - Sarcopenia
 - Pre- and post-surgery
 - Cancer

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
90001 - Grape (bottle)	26974-0900-01	B4155	4 x 30 fl oz	2400
90001-U - Grape (unit)	26974-1900-01	B4155	96 x 1 fl oz	80

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Calories	80
Calories per mL	2.7
Protein, g	11.0
Fat, g	0
Carbohydrate, g	9.0
Minerals	
Sodium, mg	35.0
Potassium, mg	40.0
Phosphorus, mg	60.0
Calcium, mg	60.0

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.

Suggested intake: 1-3 servings per day.

Administer orally or through feeding tube. Not suitable for use as a sole source of nutrition. Not for parenteral use.

Oral Feeding:

Shake well before opening. Can be taken straight or mixed with any hot or cold beverages or food.

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 with disposable spoon or tongue blade

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.

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.

** ICU stay for >2-3 days.

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.

1. McClave S et al. JPEN. 2009;33:277. 2. Penning, B. et al. Am J Clin Nutr. 2011;93:997-1005. 3. Katsanos et al. Nutrition Research. 2008;28:651-658. 4. FAO/WHO Expert Consultation. Protein Quality Evaluation: Food and Agriculture Organization of the United Nations, FAO Food and Nutrition Paper. No 51. 1991. 5. Institute of Medicine of the National Academies. Dietary Reference Intakes: Protein and Amino Acids, National Academy of Science, Washington, DC: National Academy Press, 2005. p. 737. 6. Castellanos VH. et al. Nutr Clin Pract. 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 shown in one study 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
- Sugar free
- Low volume making it appropriate for fluid restricted
- Available in great tasting tangerine flavor
- Available in bottles (6/case) or unit doses (96/case)
- Honey-like viscosity
- Lactose free, gluten free, and soy free
- Kosher
- For oral and enteral use

Indications:

- Increased protein needs in low volume related to:
 - Pressure ulcers
 - Wounds (diabetic, venous, surgical, burns)
 - Dialysis
 - Unintentional muscle loss
 - Protein-Energy Malnutrition
 - Low serum proteins
 - Sarcopenia
 - Fluid Restricted
 - Inadequate protein & fiber intake

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
60064 - Tangerine (bottle)	26974-0410-64	B4155	6 x 30 fl oz	3000
60064-U - Tangerine (unit)	26974-0420-65	B4155	96 x 1 fl oz	100

1. Sundell et al. Journal of Renal Nutrition. 2009; 19:412-421. 2. Koopman. R et al. Am J Clin Nutr. 2009. 3. Morris SM. Annu Rev Nutrition. 1992. 4. Curis E et al. Amino Acids. 2005. 5. Wu GY, Brosnan JT. Biochem J. 1992. 6. Schwedhelm E, et al. Br J Clin Pharmacol. 2008. 7. Waugh WH et al. Am J Haematol. 1999. 8. Waugh WH et al. J Natl Med Ass. 2001.

Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Calories	100
Protein, g	15.0
Fat, g	0
Carbohydrate, g	6.0
Fiber, g	3.0
Minerals	
Sodium, mg	50.0
Potassium, mg	20.0
Phosphorus, mg	50.0

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.

Suggested intake: 1-3 servings per day.

Administer orally or through feeding tube. Not suitable for use as a sole source of nutrition. Not for parenteral use.

Oral Feeding:

Can be taken straight or mixed with any hot or cold beverages or food.

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 with disposable spoon or tongue blade
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.

Storage:

- Store at room temperature.
- Refrigeration causes gelling.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- **Do Not Use If Seal Is Broken.**



UTI-Stat®

A ready-to-drink medical food providing a proprietary protection complex of 5 key ingredients including cranberry concentrate in a 1 fl oz serving for urinary tract health.

Main Features:

- Clinically shown in two studies to manage urinary tract infections¹⁻²
- Low in sugar (1 g sugar per serving)
- Available in cranberry flavor
- Available in bottles (4/case) or unit doses (96/case)
- Thin viscosity
- Lactose free, gluten free, and soy free
- Kosher
- 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
60001 - Cranberry (bottle)	26974-0410-66	B4104	4 x 30 fl oz	2100
60001-U - 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
Sodium, mg	15
Potassium, mg	20
Phosphorus, mg	0

Proprietary Blend (Cranberry Concentrate, Ascorbic Acid, D-Mannose, FOS, Bromelain)

**Glycerin provides a source of calories*

Ingredients:

Water, Glycerin, Proprietary Blend (Cranberry Concentrate, Ascorbic Acid, D-Mannose, FOS, Bromelain). Contains 2 % or less: Sucralose, Acesulfame-K, Potassium Sorbate (to preserve flavor), Sodium Benzoate (to preserve flavor), Phosphoric Acid.

Administration:

Use under medical supervision.

Oral Feeding:

Take 30 mL (2 Tbsp) up to two times a day as needed. Can be taken straight or mixed with any hot or cold beverage.

Tube Feeding:

1. Flush feeding tube with 30-60 mL water.
2. Measure and administer dose prescribed.
3. Administer UTI-Stat as you would a medication, 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 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. Posthauer, M. Can. The Director. 2008;16:13-16. 2. Efras, M., et al. Urology Gold. 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:

- Probiotics and a prebiotic working synergistically to promote intestinal health†
 - *Saccharomyces boulardii*
 - *Bacillus coagulans*
 - *Fructo-oligosaccharides*
- Great tasting pineapple/orange flavored chewable tablets or unflavored powder paks
- No refrigeration required
- For oral or enteral feeding

Helps promote:

- Intestinal health†

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	Product Packaging	Calories Per Unit
80001 - Pineapple/Orange (tablets)	26974-0410-80	6 x 30 tablets	330
80001-U - Unflavored (powder pack)	26974-0410-81	96 x 2 g	1

† 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: 1 chewable tablet

Amount Per Serving	Per Tablet
Calories	11
Calories from Fat	0
Total Carbohydrate, g	3
Sugar, g	2.5
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
Calories from Fat	0
Total 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:

Chewable Tablets: Sugar, Dextrose, Maltodextrin, Hydrogenated Cottonseed Oil, Natural & Artificial Orange flavor, Microcrystalline Cellulose, Natural & Artificial Pineapple flavor, Magnesium Stearate, Silicon Dioxide, Ethyl Maltol, Gum Arabic, Dried Yeast and Sorbitan Monostearate.

Powder Packs: Microcrystalline cellulose, Maltodextrin, Silicon Dioxide.

Suggested use:

- One tablet or powder pack once or twice daily may help to promote intestinal health.†

Directions for oral consumption:

- Dissolve tablet in mouth or chew
- Dissolve powder pack in 30 mL juice and consume immediately*

Directions for Diff-Stat Powder Pack through a feeding tube:**

1. Mix contents of Diff-Stat powder pack with 30 mL water and administer immediately as you would a medication, straight into the enteral tube.*

2. 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 powder pak in a separate room. Probiotics could be aerosolized or inadvertently introduced into a CVC line when the pak 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.
- Keep bottle tightly closed. 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 (60% DV) in 1 fl oz
- Contains fructo-oligosaccharides (FOS) and polydextrose to support total gut health¹⁻²
- Ready to drink or mix with any food or beverage
- Available in bottles (6/case) or unit doses (96/case)
- Thin viscosity
- Lactose free, soy free and gluten free
- Kosher
- 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
70001 (bottle)	26974-0410-70	B4104	6 x 30 fl oz	1500
70400-U (unit)	26974-0410-71	B4104	96 x 1 fl oz	50

Nutrition Information:

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

* Glycerin & polydextrose provide a source of calories

Ingredients:

Water, Polydextrose, Glycerin, Prune Juice Concentrate, Fructooligosaccharides (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.

Suggested Intake:

- Take 30 mL (2 Tbsp) one or two times per day.

Oral Feeding:

- Can be taken straight or mixed with any hot or cold 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 as you would a medication, 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 for parenteral use.

Storage:

- Do not refrigerate.
- Store and serve at room temperature.
- Discard three (3) months after opening. Record date opened on bottom of container.
- **Do Not Use If Seal Is Broken.**

1. Losada, MA & Olleros, T. Nutr Res. 2002. 2. Jie, Z et al. Am J Clin Nutr. 2000.



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



Monogen®

A milk protein-based powder, low in fat, and high in medium chain triglycerides (MCT).
A medical food for individuals over 1 year of age.

Main Features:

- 24% of calories from fat
- 80% of fat as MCT
- Excellent ratio of essential fatty acids (n6:n3 ratio of 6.2:1)
- Contains complete profile of vitamins and minerals including trace elements
- Osmolality (mOsm/kg):
Dilution
22 kcal/fl oz: 250 mOsm/kg
30 kcal/fl oz: 370 mOsm/kg
- Displacement: 0.67 mL/g

Indications:

- Long chain fatty acid oxidation disorders
- Hyperlipoproteinemia type 1
- Chylolothorax
- Intestinal lymphangiectasia
- Intractable malabsorption with steatorrhea
- Post-operative feeding in short bowel syndrome
- Other lipid and lymphatic disorders where a low fat, high MCT diet is indicated

Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
667097	49735-0170-97	B4150 or B4158	6 x 400 g (14.1 oz)	1680

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 100 g
Calories	420
Protein Equivalent, g	12.5
Fat, g	11.0
LCT	20%
MCT	80%
Linoleic Acid, mg	530
α-Linolenic Acid, mg	80
Carbohydrate, g	68
Vitamins	
Vitamin A, IU (mcg R.E.)	1082 (325)
Vitamin D, IU (mcg)	264 (6.6)
Vitamin E, IU (mg α T.E.)	4.1 (2.75)
Vitamin K, mcg	21
Thiamin, mg	0.35
Riboflavin, mg	0.52
Vitamin B ₆ , mg	0.4
Vitamin B ₁₂ , mcg	0.86
Niacin, mg	7.4
Folic Acid, mcg	47
Pantothenic Acid, mg	1.46
Biotin, mcg	22.3
Vitamin C, mg	35
Choline, mg	56
Inositol, mg	85.7
Minerals	
Calcium, mg	257
Phosphorus, mg	200
Magnesium, mg	35
Iron, mg	4.2
Zinc, mg	3.3
Manganese, mg	0.33
Copper, mcg	340
Iodine, mcg	40.6
Molybdenum, mcg	21.4
Chromium, mcg	10
Selenium, mcg	10.8
Sodium, mg	200
Potassium, mg	360
Chloride, mg	214

Ingredients:

Corn Syrup Solids, Whey Protein Concentrate (milk, soy lecithin), Fractionated Coconut Oil, Calcium Phosphate Dibasic, Tripotassium Citrate, Walnut Oil, Citric Acid Esters of Mono- and Diglycerides of Fatty Acids, Trisodium Citrate, L-Threonine, Magnesium Chloride, Sodium Chloride, L-Phenylalanine, Choline Bitartrate, L-Lysine Acetate, L-Tyrosine, L-Glutamine, L-Isoleucine, L-Valine, L-Leucine, M-Inositol, L-Ascorbic Acid, L-Histidine, L-Methionine, L-Cystine, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Niacinamide, Calcium-D-Pantothenate, Manganese Sulfate, Copper Sulfate, Riboflavin, Vitamin A Acetate, Pyridoxine Hydrochloride, Thiamin Hydrochloride, Sodium Molybdate, Potassium Iodide, Chromium Chloride, Folic Acid, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D₃, Cyanocobalamin.

Administration:

- Intake is determined by a medical professional and is dependent on the age, body weight and medical condition of the patient.
- Not intended for use as the sole source of nutrition. Consider supplementation of essential fatty acids and micronutrients depending on individual's needs. Not for parenteral use.

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 g.
3. Cover and shake until the powder has dissolved.

The following are guidelines for achieving desired concentrations:

Concentration	Powder	Water	Final Volume
22 kcal/fl oz	17.5 g (3 1/2 Scoops)	90 mL (3 fl oz)	100 mL
30 kcal/fl oz	24 g (5 Scoops)	80 mL (2 1/2 fl oz)	100 mL

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 24 hours from the time of preparation. Shake or stir Monogen immediately before use.

Storage:

Store in a cool, dry place. Once opened, use contents within one 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
- Density: 0.97 g/mL
- For oral or enteral use
- Can be used in beverages and foods
- **Not for parenteral use**

Indications:

- Conditions where MCTs are part of dietary management
 - 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 (Case)	49735-011957	B4155	3 x 4 x 250 mL (8.5 fl oz)	1125
71957-3 (Unit)	49735-019573	B4155	4 x 250 mL (8.5 fl oz)	1125

WIC+ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 100 mL	Per 250 mL
Calories	450	1125
Protein Equivalent, g	None	None
Carbohydrate, g	None	None
Fat, g	50	125
Saturated, g	47.1	118
MCT, g	45.4	114
MCT %	96.4	
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

Ingredients:

Refined Vegetable Oil (Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil)), Water, Citric Acid Esters of Mono and Diglycerides (Emulsifier), Mono and Diglycerides (Emulsifier), 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.

Precautions:

- Use under medical supervision.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.
- **Shake well before 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
- Tolerance – unique dual energy source of fat and carbohydrate
- Super soluble without altering the taste or texture of foods and beverages
- **Not for parenteral use**
- Milk protein-free
- Osmolality (1:3 dilution): 310 mOsm/kg
- 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 35% / LCT 65%)	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/Sachet
118262	49735-0182-62	B4155	6 x 400 g (14.1 oz)	1968

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g sachet
Calories	492	49
Protein, g	None	None
Fat, g	22.3	2.2
Saturated, g	13.8	1.4
Monounsaturated, g	2.5	0.25
Polyunsaturated, g	4.8	0.48
Carbohydrate, g	72.7	7.3
Minerals		
Sodium, mg	≤ 20	≤ 2
Potassium, mg	≤ 5	≤ 0.5
Chloride, mg	≤ 20	≤ 2
Calcium, mg	≤ 5	≤ 0.5
Phosphorus, mg	≤ 5	≤ 0.5

Ingredients:

Hydrolyzed Cornstarch, Blend of Refined Vegetable Oils (Corn, Coconut), Medium Chain Triglycerides (Fractionated Coconut Oil, Palm Kernel Oil), Mono and Diglycerides, Diacetyl Tartaric Acid Esters of Monoglycerides.

Household Measures:

(all measures are unpacked)

Measure	Weight	Calories
1 Scoop	5 g	25
1 tsp	2.6 g	13
1 Tbsp	8.5 g	42
1/4 cup	30 g	148
1/2 cup	56 g	276
1 cup	117 g	576
1 sachet	10 g	49

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

(1 cup = 240 mL; 1/2 cup = 120 mL; 1/3 cup = 80 mL; 1/4 cup = 60 mL)

Displacement Factor: 0.77 mL/g

Administration:

- 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 prescribed amount of Super Soluble Duocal.
2. Add powder to the required volume of liquid and/or soft food and stir continuously until the powder has dissolved.
3. Unused foods mixed with Duocal should be refrigerated and used within 24 hours. Shake or stir immediately before serving.

Storage:

- Store unopened can at room temperature. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month.



Polycal™

A powdered, concentrated source of energy (maltodextrin).

Main Features:

- Concentrated carbohydrate energy source – 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
- Manufactured in a dairy-free environment
- **Not for parenteral use**
- Osmolality (10% solution): 104 mOsm/kg
- 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⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 100 g
Calories	384
Carbohydrate, g	96.0
Protein, g	0
Fat, g	0
Minerals	
Sodium, mg	2.0
Potassium, mg	0

Ingredients:

Maltodextrin.

Household Measures:

(all measures are unpacked)

Measure	Weight	Calories
1 Scoop	5 g	~20 kcal
½ tsp	1.2 g	4.6 kcal
1 tsp	2.4 g	9.3 kcal
1 Tbsp	7.3 g	27.8 kcal
¼ cup	29.0 g	111 kcal
⅓ cup	38.7 g	148 kcal
½ cup	58.0 g	223 kcal
1 cup	116 g	445 kcal

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

(For standard US dry measures, 1 cup = 240 mL)

Administration:

Intake to be determined by a medical professional and is dependent on the age, body weight and medical condition of the patient. Polycal is not suitable as a sole source of nutrition.

A scoop is provided in the can and holds approximately 5 g of powder (~20 kcal).

- 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.

Storage:

Store unopened can in a cool, dry place. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use contents within 1 month. Replace lid firmly after use. Unfinished beverages and foods should be stored in a refrigerator for up to 24 hours.



Complete Amino Acid Mix

An unflavored, powdered mixture of essential and non-essential amino acids.

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
- Recommended feeding concentration is 5% w/v (e.g. 5 g powder to 100 mL of water)
- Best served as a chilled drink, mixed with water, fruit juices or other formulas
- Not suitable as the sole source of nutrition; micronutrients and energy must be supplied separately
- Not for parenteral use**
- Osmolality (5% w/v): 360 mOsm/kg
- 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. 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
553341	49735-0101-24	B4155	6 x 200 g (7 oz)	656

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 100 g
Calories	328
Protein Equivalent, g	82
Fat, g	None
Carbohydrate, g	None
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	10.22
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.

Administration:

- Dosage should be determined by a doctor or dietitian and is dependent on the age, body weight and medical condition of the patient. Complete Amino Acid Mix must not be used as the sole source of nutrition. Micronutrients and energy must be supplied to meet nutrient needs and to ensure proper growth.
- The recommended feeding concentration is 5% w/v (e.g. 5 g powder to 100 mL of water). Per 5 g of powder, Complete Amino Acid Mix provides 4 g of protein.
- Complete Amino Acid Mix should be weighed on a scale that reads in grams. It is 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.

Storage:

- Store in a cool, dry place. Once opened, use within one month. Always replace container lid after use.
- 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.



Essential Amino Acid Mix

An unflavored, powdered mixture of essential amino acids, including cystine and histidine.

Main Features:

- Balanced mixture of essential amino acids
- Essential Amino Acid Mix provides 4 g of protein equivalent per 5 g of powder
- Recommended feeding concentration is 5% w/v (e.g. 5 g powder to 100 mL of water)
- Best served as a chilled drink, mixed with water, fruit juices or other formulas
- Not suitable as the sole source of nutrition; micronutrients and energy must be supplied separately
- **Not for parenteral use**
- Osmolality (5% w/v): 360 mOsm/kg
- 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
553342	49735-0114-90	B4155	6 x 200 g (7 oz)	632

WIC⁺ eligible in all States.

For more reimbursement information see page 227.

Nutrition Information:

Nutrients	Per 100 g
Calories	316
Protein Equivalent, g	79
Fat, g	None
Carbohydrate, g	None
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.

Administration:

- Dosage should be determined by a doctor or dietitian and is dependent on the age, body weight and medical condition of the patient. Essential Amino Acid Mix must not be used as the sole source of nutrition. Micronutrients and energy must be supplied to meet nutrient needs and to ensure proper growth.
- The recommended feeding concentration is 5% w/v (e.g. 5 g powder to 100 mL of water). Per 5 g of powder, Essential Amino Acid Mix provides 4 g of protein.
- Essential Amino Acid Mix should be weighed on a scale that reads in grams. It is 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.

Storage:

- Store in a cool, dry place. Once opened, use within one month. Always replace container lid after use.
- 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.



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
10685	49735-0106-85	A9270	30 x 7 g	0.2

Nutrition Information:

Nutrients	Per 7 g packet
Calories	0.2
Protein, g	0.02
Fat, g	None
Carbohydrate, g	0.04
Vitamins	
Vitamin A, IU (mcg R.E.)	2664 (800)
Vitamin D, IU (mcg)	400 (10)
Vitamin E, IU (mg α T.E.)	13.5 (9)
Vitamin K, mcg	70
Thiamin, mg	1.2
Riboflavin, mg	1.4
Vitamin B ₆ , mg	1.6
Vitamin B ₁₂ , mcg	5
Niacin, mg	20
Folic Acid, mcg	700
Pantothenic Acid, mg	5
Biotin, mcg	150
Vitamin C, mg	50
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
Chromium, mcg	30
Selenium, mcg	75
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:

- Mix one sachet of Phlexy-Vits with one sachet of dry powdered Phlexy-10 Drink Mix. 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. Alternatively, 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.

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 powder.

Main Features:

- An amino acid medical food for the dietary management of inborn errors of metabolism.
- **IMPORTANT:** For use under medical supervision. This product is nutritionally incomplete. Not for parenteral use.
- **WARNING:** Do not heat, bake or add to hot food or beverages above 130°F.
- **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.
- **DIRECTIONS FOR USE:** Use as directed by physician or dietitian.

Ordering/Reimbursement Information:

Product	Product Code	Reimbursement Code	HCPCS Code	Package Description
L-ARGININE	0120A	00847-0012-00	B4155	1 - 50g bottle
GLYCINE	0130G	00847-0013-00	B4155	1 - 50g bottle
L-ISOLEUCINE	0140I	00847-0014-00	B4155	1 - 50g bottle
L-LEUCINE	0150L	00847-0015-00	B4155	1 - 50g bottle
L-TYROSINE	0160T	00847-0016-00	B4155	1 - 50g bottle
L-VALINE	0170V	00847-0017-00	B4155	1 - 50g bottle



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

The following pages include pocket-sized versions of treatment flowcharts that are available free at www.NutriciaLearningCenter.com

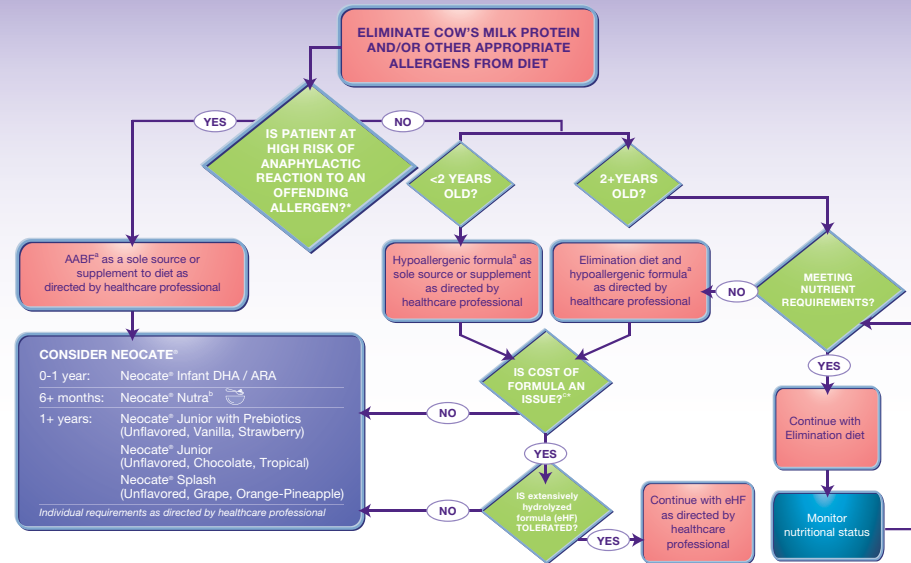
These five flow charts illustrate options for the nutrition management of conditions where specialized medical nutrition fits in. They are evidence-based tools that may be used as decision-making guides to help clinicians to determine the best way to nutritionally manage patients.

Please visit our website for free electronic copies of these and the other flow charts we offer.

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

- Recorded Webinars (CE eligible)
- Healthcare Professional Tools
- Patient Education Tools
- Reference Library
- Case Studies

Cow Milk Allergy / Multiple Food Protein Intolerance

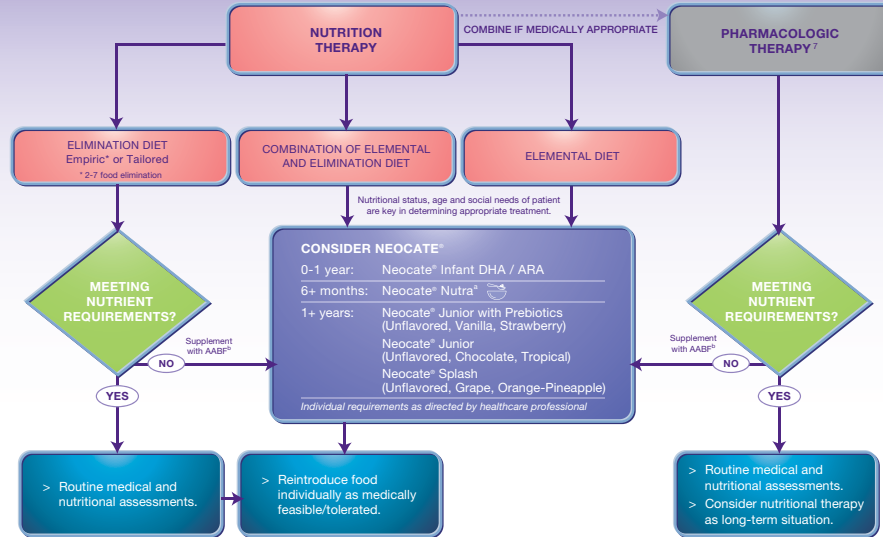


Cow Milk Allergy / Multiple Food Protein Intolerance

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Eosinophilic Esophagitis

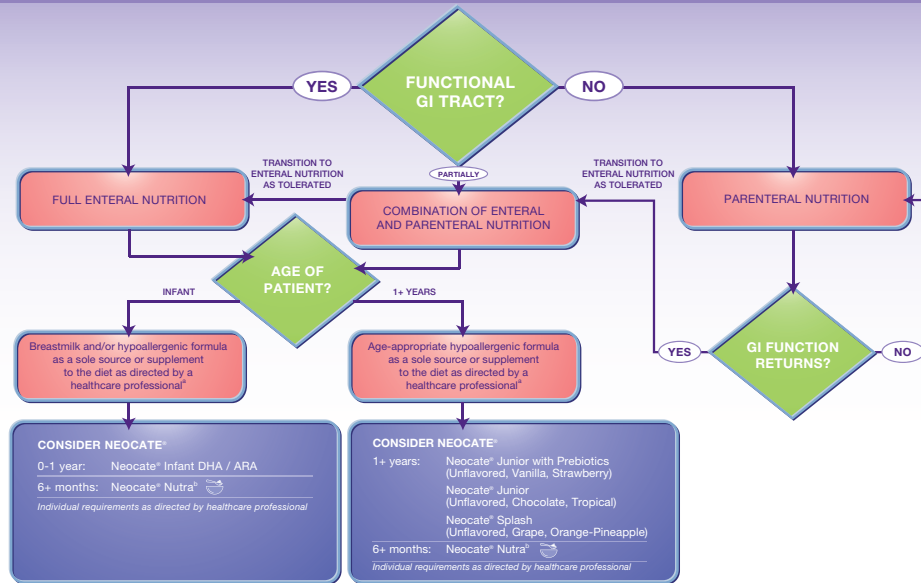


Eosinophilic Esophagitis

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Short Bowel Syndrome



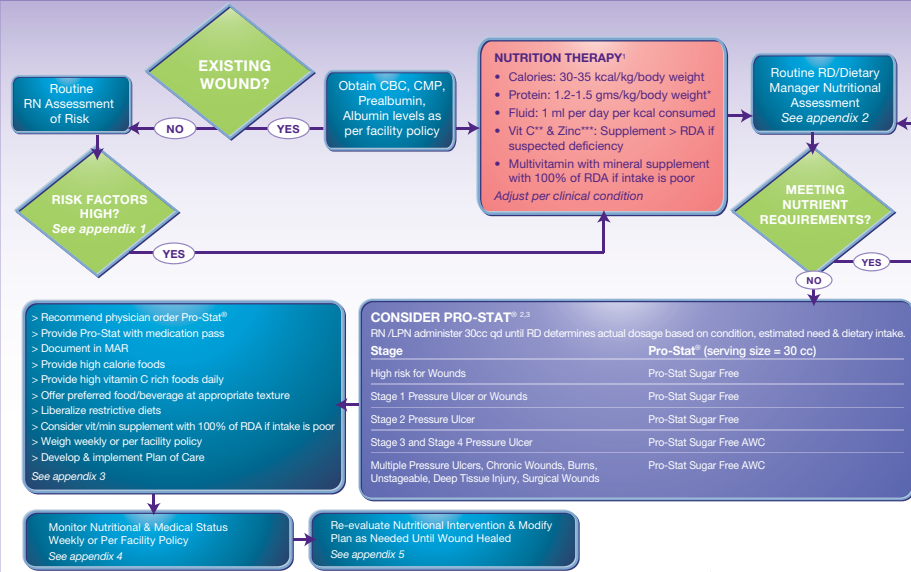
* Hypoallergenic formula includes AABF (Amino Acid-Based Formula) and eHF (Extensively Hydrolyzed Formula)
 † Neocate Nutra is a supplemental semi-solid elemental food for 6+ months

Short Bowel Syndrome

References:

1. Andorsky et al. Nutritional and Other Postoperative Management of Neonates with Short Bowel Syndrome Correlates with Clinical Outcomes. *J Pediatr* 2001;139:27-33.
2. Becker. Cow's Milk Allergy in a Preterm Infant: A Case Presentation *ICAN: Infant, Child, & Adolescent Nutrition* 2009;214 - 219.
3. Bines et al. Reducing Parenteral Requirement in Children with Short Bowel Syndrome: Impact of an Amino Acid-Based Complete Infant Formula. *J Pediatr Gastroenterol Nutr* 1998;26:123-8.
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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. BMI (≤ 18.5 or ≥ 30)
5. Poor oral intake
6. Receiving enteral/parenteral nutrition
7. Immobility, decline in ADLs
8. Infections (UTI)
9. Diagnosis of under-nutrition/mainutrition/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 PrUs
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. European Pressure Ulcer Advisory Panel and National Pressure Ulcer Advisory Panel. Prevention and treatment of pressure ulcers: quick reference guide. Washington DC: National Pressure Ulcer Advisory Panel; 2009.
2. Lee S K, Posthauer ME, Dornier B, Redovian V, Maloney M J. Pressure ulcer healing with a concentrated, fortified, collagen protein hydrolysate supplement; a randomized controlled trial. *Advances in Skin & Wound Care*; 2006 03;19(2): 92-96.
3. Hays et al. Effects of Whey and Fortified Collagen Hydrolysate Protein Supplements on Nitrogen Balance and Body Composition in Older Women. *Journal of the American Dietetic Association*, 109:1082-1087, June 2009.
4. Braden B, The Braden Scale for pressure Ulcer prediction. Available at <http://www.bradenscale.com/braden.PDF>. Accessed August 24, 2011.
5. MNA @ <http://www.mna-elderly.com> Accessed August 24, 2011.

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: ie 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 also involving 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 30-60cc water, dilute with 30-60cc water, & flush tube with additional 30-60cc
35. Pro-Stat[®] provides:
> **Sugar Free:** 15 g protein, 100 kcal/30 cc
> **Sugar Free AWC:** 17 g protein, 100 kcal/30 cc
36. Viscosity: Pro-Stat Sugar Free is nectar-like, Pro-Stat Sugar Free AWC is honey-like
37. Pro-Stat is Lactose-free, Soy-free, Gluten-free, and is 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

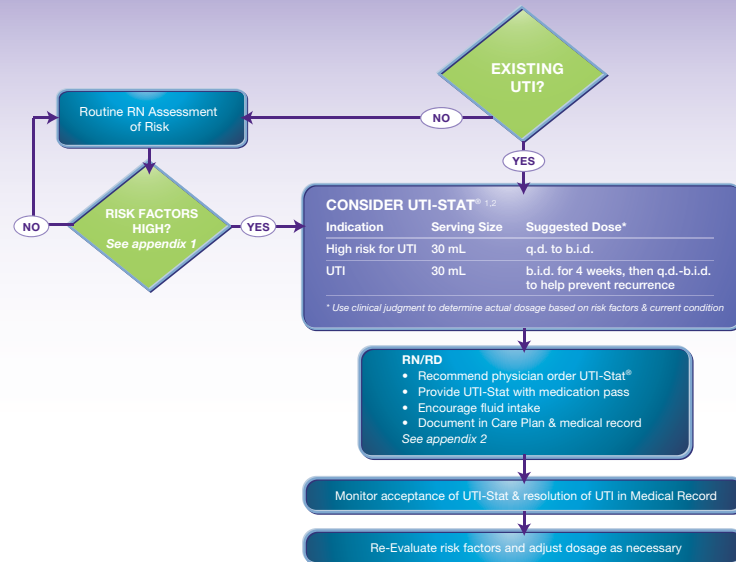
Appendix 4: Monitor Nutritional & Medical Status

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 PrU 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 (hygiene e.g.) (RN)
20. Monitor & document acceptance of UTI-Stat & response to the intervention in medical record (RN)

References:

1. Posthauer M. *The Director*. 2008;16:13-16. 2. Efros M, et al. *Urology Gold*. 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 or visit our websites:

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)
Infants												
0-6 mo	200*	100*	30*	0.01*	15*	0.2*	200*	110*	0.27*	0.003*	2*	2*
7-12 mo	260*	275*	75*	0.5*	20*	5.5	220*	130*	11	0.6*	3*	3
Children												
1-3 y	700	460	80	0.7*	20	11*	340	90	7	1.2*	17	3
4-8 y	1,000	500	130	1*	30	15*	440	90	10	1.5*	22	5
Males												
9-13 y	1,300	1,250	240	2*	40	25*	700	120	8	1.9*	34	8
14-18 y	1,300	1,250	410	3*	55	35*	890	150	11	2.2*	43	11
19-30 y	1,000	700	400	4*	55	35*	900	150	8	2.3*	45	11
31-50 y	1,000	700	420	4*	55	35*	900	150	8	2.3*	45	11
51-70 y	1,000	700	420	4*	55	30*	900	150	8	2.3*	45	11
> 70 y	1,200	700	420	4*	55	30*	900	150	8	2.3*	45	11
Females												
9-13 y	1,300	1,250	240	2*	40	21*	700	120	8	1.6*	34	8
14-18 y	1,300	1,250	360	3*	55	24*	890	150	15	1.6*	43	9
19-30 y	1,000	700	310	3*	55	25*	900	150	18	1.8*	45	8
31-50 y	1,000	700	320	3*	55	25*	900	150	18	1.8*	45	8
51-70 y	1,200	700	320	3*	55	20*	900	150	8	1.8*	45	8
> 70 y	1,200	700	320	3*	55	20*	900	150	8	1.8*	45	8
Pregnancy												
14-18 y	1,300	1,250	400	3*	60	29*	1,000	220	27	2.0+*	50	12
19-30 y	1,000	700	350	3*	60	30*	1,000	220	27	2.0+*	50	11
31-50 y	1,000	700	360	3*	60	30*	1,000	220	27	2.0+*	50	11
Lactation												
14-18 y	1,300	1,250	360	3*	70	44*	1,300	290	10	2.6*	50	13
19-30 y	1,000	700	310	3*	70	45*	1,300	290	9	2.6*	50	12
31-50 y	1,000	700	320	3*	70	45*	1,300	290	9	2.6*	50	12

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.



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- A support blog for caregivers of children on the ketogenic diet for epilepsy.
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www.MyDuocal.com

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NOTES

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