



Innovation in Nutrition

A Nestlé Health Science Company

Vitaflo[®] USA

Product Guide

2020

Vitaflo is at the forefront of developing innovative specialized medical foods for Inherited Metabolic Diseases, the Ketogenic Diet, and Pediatric Kidney Disease. Our aim is to create nutritional products that combine cutting edge research with the lifestyle demands of modern living, ensuring the most acceptable products are available for nutrition management.

By constantly evolving to meet the nutrition needs of people with rare conditions, Vitaflo will continue to develop products which offer choice, flexibility and convenience to support a sustainable therapeutic diet.



Innovation in Nutrition

A Nestlé Health Science Company

Product Information

Web: www.VitafloUSA.com

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Vitaflo products are for use under medical supervision.

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Vitaflo products are for use under medical supervision.



Accessing formula can be challenging. Formula4Success is Vitaflo's personalized program that offers free assistance to patients.*

Any
Health Insurance

No
Health Insurance

All
Financial Backgrounds

Enrollment is simple.

- 1 Patients can complete the **enrollment form online** at www.Vitaflo4Success.com
- 2 Healthcare professionals can access the **Detailed Written Order (DWO)** and **Letter of Medical Necessity (LMN)** templates at www.Vitaflo4Success.com
- 3 The enrollment form, DWO and LMN can be submitted in one of the following ways:

Fax: 888-485-7193

Email: Formula4Success@VitafloUSA.com

Mail: Vitaflo USA
ATTN: Formula4Success
PO Box 58569
Raleigh, NC 27658



Innovation in Nutrition

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Visit www.Vitaflo4Success.com or call 800-520-6112

*Patients that are prescribed select Vitaflo formulas are eligible to enroll in Formula4Success.

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METABOLIC PRODUCTS

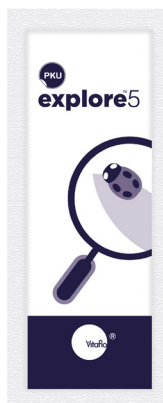


A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 6 months of age
- A blend of essential and non-essential amino acids, carbohydrate, arachidonic acid (ARA), docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 5 g protein equivalent
- Designed to form a semi-solid (spoonable) consistency when mixed with water to support introduction of solids in the PKU diet
- Available in Unflavored

See page 91 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	30 x 12.5 g packets	50600-0246-51	B4157 & B4162

PKU explore5 (Unflavored) – Ingredients: Sugar, L-Lysine L-Aspartate, Corn Starch, Modified Corn Starch, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, L-Glutamine, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Dried Glucose Syrup, Calcium Phosphate, L-Serine, L-Alanine, L-Histidine, Choline Bitartrate, L-Cystine, Magnesium Phosphate, L-Tryptophan, Potassium Chloride, L-Methionine, L-Arginine, High Oleic Sunflower Oil, Refined Tuna Oil (Fish), Calcium Glycerophosphate, Maltodextrin, Sodium Citrate, Sodium Ascorbate, M. Alpina Oil*, Salt, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, Mono- and Diglycerides, DL-Alpha Tocopheryl Acetate, Vitamin D3, Calcium Pantothenate, Niacinamide, Sodium Selenite, Copper Gluconate, Retinyl Acetate, Vitamin B12, Chromium Chloride, Folic Acid, Biotin, Potassium Iodide, Manganese Gluconate, Riboflavin, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Vitamin K1, Tocopherols, Ascorbyl Palmitate.

Contains: Fish (tuna). **May contain:** Milk.

*A source of arachidonic acid (ARA).

PKU explore5 Nutrition Information

	Units	per 100 g	per 12.5 g (1 packet)
Calories	kcal	342	43
Protein equivalent	g	40	5.0
Total Carbohydrate	g	42	5.2
Sugars	g	28	3.5
Total Fat	g	1.5	0.2
Saturated Fat	g	0.7	0.09
Arachidonic Acid (ARA)	mg	280	35
Docosahexaenoic Acid (DHA)	mg	140	17
VITAMINS			
Vitamin A	µg RE	470	59
Vitamin D	µg	24	3.0
Vitamin E	mg α TE	8.7	1.1
Vitamin C	mg	80	10
Vitamin K	µg	24	3.0
Thiamin	mg	0.90	0.11
Riboflavin	mg	1.4	0.17
Niacin	mg	6.2	0.77
Vitamin B6	mg	1.0	0.12
Folic acid	µg	200	25
Vitamin B12	µg	3.3	0.41
Biotin	µg	21	2.6
Pantothenic acid	mg	6.6	0.82
Choline	mg	405	51
MINERALS			
Sodium	mg	200	25
Potassium	mg	450	56
Chloride	mg	450	56
Calcium	mg	1100	137
Phosphorus	mg	650	81
Magnesium	mg	120	15
Iron	mg	14.2	1.8
Copper	mg	0.72	0.09
Zinc	mg	10.0	1.2
Manganese	mg	0.23	0.03
Iodine	µg	134	17
Molybdenum	µg	36	4.5
Selenium	µg	28	3.5
Chromium	µg	27	3.4
AMINO ACIDS			
L-Alanine	g	1.71	0.21
L-Arginine	g	2.76	0.35
L-Aspartic acid	g	4.38	0.55
L-Cystine	g	1.11	0.14
L-Glutamine	g	3.45	0.43
Glycine	g	4.36	0.55
L-Histidine	g	1.70	0.21
L-Isoleucine	g	2.98	0.37
L-Leucine	g	4.69	0.59
L-Lysine	g	3.10	0.39
L-Methionine	g	0.83	0.10
L-Phenylalanine*	g	0	0
L-Proline	g	3.12	0.39
L-Serine	g	1.94	0.24
L-Threonine	g	3.03	0.38
L-Tryptophan	g	0.94	0.12
L-Tyrosine	g	4.40	0.55
L-Valine	g	3.45	0.43
L-Carnitine	mg	44	5.5
Taurine	mg	88	11

*No added phenylalanine.



A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

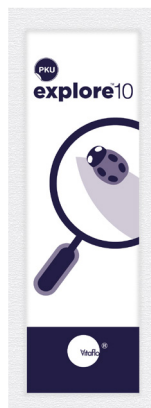
Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, arachidonic acid (ARA), docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to form a semi-solid (spoonable) consistency when mixed with water to support introduction of solids in the PKU diet
- Available in Orange and Raspberry flavors

Osmolality when prepared as a low volume drink:

25 g (1 packet) + 80 ml (2.7 fl oz) water = 1550 mOsm/kg

See page 91 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPSC Code
Raspberry	30 x 25 g packets	50600-0246-75	B4157 & B4162
Orange	30 x 25 g packets	50600-0246-68	B4157 & B4162

PKU explore10 (Orange) – Ingredients: Sugar, L-Lysine L-Aspartate, Corn Starch, Modified Corn Starch, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, L-Glutamine, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Dried Glucose Syrup, Calcium Phosphate, Citric Acid, L-Serine, L-Alanine, L-Histidine, Choline Bitartrate, Natural Flavor, L-Cystine, Magnesium Phosphate, L-Tryptophan, Potassium Chloride, L-Methionine, L-Arginine, High Oleic Sunflower Oil, Refined Tuna Oil (Fish), Calcium Glycero-phosphate, Maltodextrin, Sodium Citrate, Sodium Ascorbate, M. Alpina Oil*, Salt, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, Mono- and Diglycerides, DL-Alpha Tocopheryl Acetate, Dipotassium Phosphate, Vitamin D3, Calcium Pantothenate, Niacinamide, Sodium Selenite, Copper Gluconate, Retinyl Acetate, Vitamin B12, Chromium Chloride, Folic Acid, Biotin, Potassium Iodide, Manganese Gluconate, Riboflavin, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Vitamin K1, Tocopherols, Ascorbyl Palmitate.

Contains: Fish (tuna). **May contain:** Milk.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

*A source of arachidonic acid (ARA).

PKU explore10 Nutrition Information

	Units	per 100 g	per 25 g (1 packet)
Calories	kcal	330	83
Protein equivalent	g	40	10
Total Carbohydrate	g	39	9.8
Sugars	g	25	6.3
Total Fat	g	1.5	0.4
Saturated Fat	g	0.7	0.17
Arachidonic Acid (ARA)	mg	280	70
Docosahexaenoic Acid (DHA)	mg	140	35
VITAMINS			
Vitamin A	µg RE	470	117
Vitamin D	µg	24	6.0
Vitamin E	mg α TE	8.7	2.2
Vitamin C	mg	80	20
Vitamin K	µg	24	6.0
Thiamin	mg	0.90	0.22
Riboflavin	mg	1.4	0.35
Niacin	mg	6.2	1.5
Vitamin B6	mg	1.0	0.25
Folic acid	µg	200	50
Vitamin B12	µg	3.3	0.82
Biotin	µg	21	5.2
Pantothenic acid	mg	6.6	1.6
Choline	mg	405	101
MINERALS			
Sodium	mg	200	50
Potassium	mg	450	112
Chloride	mg	450	112
Calcium	mg	1100	275
Phosphorus	mg	650	162
Magnesium	mg	120	30
Iron	mg	14.2	3.5
Copper	mg	0.72	0.18
Zinc	mg	10.0	2.5
Manganese	mg	0.23	0.06
Iodine	µg	134	33
Molybdenum	µg	36	9.0
Selenium	µg	28	7.0
Chromium	µg	27	6.7
AMINO ACIDS			
L-Alanine	g	1.71	0.43
L-Arginine	g	2.76	0.69
L-Aspartic acid	g	4.38	1.10
L-Cystine	g	1.11	0.28
L-Glutamine	g	3.45	0.86
Glycine	g	4.36	1.09
L-Histidine	g	1.70	0.43
L-Isoleucine	g	2.98	0.75
L-Leucine	g	4.69	1.17
L-Lysine	g	3.10	0.78
L-Methionine	g	0.83	0.21
L-Phenylalanine*	g	0	0
L-Proline	g	3.12	0.78
L-Serine	g	1.94	0.49
L-Threonine	g	3.03	0.76
L-Tryptophan	g	0.94	0.24
L-Tyrosine	g	4.40	1.10
L-Valine	g	3.45	0.86
L-Carnitine	mg	44	11
Taurine	mg	88	22

*No added phenylalanine.



A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 2 level scoops (33 g) provide 10 g protein equivalent
- Available in Unflavored and Vanilla flavor

Osmolality

Unflavored: 33 g (2 scoops) + 135 ml (4.5 fl oz) water = 815 mOsm/kg

Vanilla: 33 g (2 scoops) + 135 ml (4.5 fl oz) water = 862 mOsm/kg

See page 92 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	400 g can	50600-0518-06	B4157 & B4162
Vanilla	400 g can	50600-0518-13	B4157 & B4162

PKU trio (Unflavored) – Ingredients: Dried Glucose Syrup, Blend of Vegetable Oils (High Oleic Sunflower Oil, Soybean Oil), L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, Calcium Phosphate, L-Arginine L-Aspartate, L-Valine, L-Glutamine, L-Proline, L-Threonine, L-Isoleucine, L-Serine, Sodium Citrate, Potassium Chloride, L-Alanine, L-Histidine, Magnesium Hydrogen Phosphate, Choline Bitartrate, L-Cystine, L-Tryptophan, Maltodextrin, C.Cohnii Oil*, L-Methionine, L-Arginine, Citric Acid Esters of Mono and Di-Glycerides of Fatty Acids, Xanthan gum, Magnesium Acetate, Sodium Caseinate (Milk), Sodium Ascorbate, Zinc Gluconate, Inositol, Taurine, Sodium Ascorbate (Preservative), L-Carnitine L-Tartrate, Ferrous Sulfate, Potassium Phosphate, DL-Alpha Tocopheryl Acetate, Mono and Diglycerides of Fatty Acids, Manganese Gluconate, Nicotinamide, Vitamin D3, Copper Gluconate, Retinyl Acetate, Calcium Pantothenate, Pyridoxine Hydrochloride, Thiamin Hydrochloride, Riboflavin, Vitamin K (Phylloquinone), Folic Acid (Pteroylmonoglutamic Acid), Chromium Chloride, Potassium Iodine, Sodium Molybdate, Sodium Selenite, Biotin, Vitamin B12, Tocopherol (Preservative), Ascorbyl Palmitate (Preservative).

Contains: Milk

Ingredient lists for all flavored options available at www.VitaFloUSA.com

*A source of docosahexaenoic acid (DHA).

PKU trio Nutrition Information

		Unflavored		Flavored	
	Units	per 100 g	per 16.5 g (1 scoop)	per 100 g	per 16.5 g (1 scoop)
Calories	kcal	405	67	405	67
Protein equivalent	g	30	5.0	30	5.0
Total Carbohydrate	g	38.9	6.4	38.9	6.4
Sugars	g	3.8	0.6	3.8	0.6
Total Fat	g	14.3	2.4	14.3	2.4
VITAMINS					
Vitamin A	µg RE	416	68.6	416	68.6
Vitamin D	µg	15	2.5	15	2.5
Vitamin E	mg α TE	7.8	1.3	7.8	1.3
Vitamin C	mg	54	8.9	54	8.9
Vitamin K	µg	50	8.3	50	8.3
Thiamin	mg	1.0	0.17	1.0	0.17
Riboflavin	mg	1.2	0.20	1.2	0.20
Niacin	mg	8.5	1.4	8.5	1.4
Vitamin B6	mg	1.4	0.23	1.4	0.23
Folic acid	µg	280	46.2	280	46.2
Vitamin B12	µg	2.4	0.40	2.4	0.40
Biotin	µg	60	9.9	60	9.9
Pantothenic acid	mg	4.0	0.66	4.0	0.66
Choline	mg	300	49.5	300	49.5
Inositol	mg	60	9.9	60	9.9
MINERALS					
Sodium	mg	360	59.4	360	59.4
Potassium	mg	522	86.1	522	86.1
Chloride	mg	460	75.9	460	75.9
Calcium	mg	850	140	850	140
Phosphorus	mg	624	103	624	103
Magnesium	mg	150	24.8	150	24.8
Iron	mg	10.8	1.8	10.8	1.8
Copper	µg	900	149	900	149
Zinc	mg	10.8	1.8	10.8	1.8
Manganese	mg	1.6	0.26	1.6	0.26
Iodine	µg	126	20.8	126	20.8
Molybdenum	µg	72	11.9	72	11.9
Selenium	µg	38	6.3	38	6.3
Chromium	µg	44	7.3	44	7.3
AMINO ACIDS					
L-Alanine	g	116	0.19	116	0.19
L-Arginine	g	1.87	0.31	1.87	0.31
L-Aspartic acid	g	2.96	0.49	2.96	0.49
L-Cystine	g	0.75	0.12	0.75	0.12
L-Glutamine	g	2.29	0.38	2.29	0.38
Glycine	g	2.95	0.49	2.95	0.49
L-Histidine	g	1.15	0.19	1.15	0.19
L-Isoleucine	g	2.02	0.33	2.02	0.33
L-Leucine	g	3.17	0.52	3.17	0.52
L-Lysine	g	2.09	0.34	2.09	0.34
L-Methionine	g	0.56	0.09	0.56	0.09
L-Phenylalanine*	g	0	0	0	0
L-Proline	g	2.11	0.35	2.11	0.35
L-Serine	g	1.32	0.22	1.32	0.22
L-Threonine	g	2.05	0.34	2.05	0.34
L-Tryptophan	g	0.64	0.11	0.64	0.11
L-Tyrosine	g	2.98	0.49	2.98	0.49
L-Valine	g	2.34	0.39	2.34	0.39
L-Carnitine	mg	32	5.3	32	5.3
Taurine	mg	64	11	64	11

*No added phenylalanine. Phenylalanine may be present in trace amounts from other ingredients (<10 mg/100 g, <3 mg/100 ml).



**A powdered glycomacropeptide (GMP)-based
low phenylalanine* medical food
for use in the dietary management
of Phenylketonuria.**

Features

- Suitable from 3 years of age
- A blend of glycomacropeptide (GMP), essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid - DHA), vitamins and minerals
- 1 packet provides 15 g protein equivalent from GMP and amino acids
- Available in Vanilla and Red Berry flavors

*Each packet of PKU sphere15 contains 28 mg of phenylalanine.

Osmolality

Vanilla: 27 g (1 packet) + 120 ml (4 fl oz) water = 572 mOsm/kg

Red Berry: 27 g (1 packet) + 120 ml (4 fl oz) water = 609 mOsm/kg

See page 94 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Vanilla	30 x 27 g packets	50600-0214-38	B4162 & B4157
Red Berry	30 x 27 g packets	50600-0211-31	B4162 & B4157

PKU sphere15 (Vanilla) – Ingredients: Whey protein isolate (milk), L-leucine, Sugar, L-tyrosine, Natural and artificial flavor, Modified corn starch, Soy lecithin, L-arginine, Calcium lactate, Magnesium phosphate, Calcium phosphate, Corn syrup, L-histidine, Choline bitartrate, Glycine, Refined tuna oil (fish), L-tryptophan, L-lysine L-aspartate, L-cystine, Sodium ascorbate, Zinc gluconate, Maltodextrin, Dipotassium phosphate, Ferrous sulfate, L-methionine, Sucralose, DL-alpha tocopheryl acetate, Potassium iodide, Mono- and diglycerides, Chromium chloride, Sodium selenite, Sodium molybdate, Copper gluconate, Niacinamide, Manganese gluconate, Vitamin A acetate, Calcium pantothenate, Vitamin D3, Vitamin B12, Biotin, Folic acid, Thiamine hydrochloride, Pyridoxine hydrochloride, Riboflavin, Vitamin K1, Tocopherols (preservative).

Contains: Fish (tuna), Milk, and Soy.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

PKU sphere15 Nutrition Information

	Units	per 100 g	per 27 g (1 packet)
Calories	kcal	340	90
Protein equivalent	g	56	15
Total Carbohydrate	g	18	4.9
Sugars	g	7.0	1.9
Total Fat	g	4.5	1.2
Saturated Fat	g	1.0	0.3
Docosahexaenoic Acid (DHA)	mg	314	85
VITAMINS			
Vitamin A	µg RE	690	186
Vitamin D	µg	12	3.2
Vitamin E	mg α-TE	14	3.8
Vitamin C	mg	65	17
Vitamin K	µg	59	16
Thiamin	mg	1.5	0.40
Riboflavin	mg	1.5	0.40
Niacin	mg	8.6	2.3
Vitamin B6	mg	1.4	0.38
Folic acid	µg	260	70
Vitamin B12	µg	4.1	1.1
Biotin	µg	32	8.6
Pantothenic acid	mg	5.1	1.4
Choline	mg	510	138
MINERALS			
Sodium	mg	810	219
Potassium	mg	590	159
Chloride	mg	20	5.4
Calcium	mg	1010	273
Phosphorus	mg	1050	283
Magnesium	mg	290	78
Iron	mg	19	5.1
Copper	mg	1.5	0.40
Zinc	mg	19	5.1
Manganese	mg	1.0	0.27
Iodine	µg	210	57
Molybdenum	µg	51	14
Selenium	µg	76	20
Chromium	µg	30	8.1
AMINO ACIDS			
L-Alanine	g	2.36	0.64
L-Arginine	g	2.73	0.74
L-Aspartic acid	g	3.73	1.01
L-Cystine	g	0.69	0.19
L-Glutamine	g	7.72	2.08
Glycine	g	2.02	0.55
L-Histidine	g	2.01	0.54
L-Isoleucine	g	4.06	1.10
L-Leucine	g	8.62	2.33
L-Lysine	g	2.72	0.73
L-Methionine	g	0.80	0.22
L-Phenylalanine	mg	104	28
L-Proline	g	4.58	1.24
L-Serine	g	2.88	0.78
L-Threonine	g	6.55	1.77
L-Tryptophan	g	1.15	0.31
L-Tyrosine	g	6.43	1.74
L-Valine	g	3.27	0.88



**A powdered glycomacropeptide (GMP)-based
low phenylalanine* medical food
for use in the dietary management
of Phenylketonuria.**

Features

- Suitable from 3 years of age
- A blend of glycomacropeptide (GMP), essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid - DHA), vitamins and minerals
- 1 packet provides 20 g protein equivalent from GMP and amino acids
- Available in Vanilla, Red Berry, and Chocolate flavors

*Each packet of PKU sphere20 contains 36 mg of phenylalanine.

Osmolality

Vanilla: 35 g (1 packet) + 120 ml (4 fl oz) water = 850 mOsm/kg

Red Berry: 35 g (1 packet) + 120 ml (4 fl oz) water = 900 mOsm/kg

Chocolate: 35 g (1 packet) + 120 ml (4 fl oz) water = 800 mOsm/kg

See page 94 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Vanilla	30 x 35 g packets	50600-0211-24	B4162 & B4157
Red Berry	30 x 35 g packets	50600-0211-17	B4162 & B4157
Chocolate	30 x 35 g packets	50600-0220-53	B4162 & B4157

PKU sphere (Vanilla) – Ingredients: Whey protein isolate (milk), L-leucine, Sugar, L-tyrosine, Natural and artificial flavor, Modified corn starch, Soy lecithin, L-arginine, Calcium lactate, Magnesium phosphate, Calcium phosphate, Corn syrup, L-histidine, Choline bitartrate, Glycine, Refined tuna oil (fish), L-tryptophan, L-lysine L-aspartate, L-cystine, Sodium ascorbate, Zinc gluconate, Maltodextrin, Dipotassium phosphate, Ferrous sulfate, L-methionine, Sucralose, DL-alpha tocopheryl acetate, Potassium iodide, Mono- and diglycerides, Chromium chloride, Sodium selenite, Sodium molybdate, Copper gluconate, Niacinamide, Manganese gluconate, Vitamin A acetate, Calcium pantothenate, Vitamin D3, Vitamin B12, Biotin, Folic acid, Thiamine hydrochloride, Pyridoxine hydrochloride, Riboflavin, Vitamin K1, Tocopherols (preservative).

Contains: Fish (tuna), Milk, and Soy.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

PKU sphere20 Nutrition Information

	Units	per 100 g Vanilla/ Red Berry	per 35 g (1 packet) Vanilla/Red Berry	per 100 g Chocolate	per 35 g (1 packet) Chocolate
Calories	kcal	340	120	340	120
Protein equivalent	g	56	20	56	20
Total Carbohydrate	g	18	6.3	18	6.3
Sugars	g	7.0	2.5	8.5	3.0
Total Fat	g	4.5	1.6	4.5	1.6
Saturated Fat	g	1.0	0.4	1.0	0.4
Docosahexaenoic Acid (DHA)	mg	314	110	314	110
VITAMINS					
Vitamin A	µg RE	690	241	690	241
Vitamin D	µg	12	4.2	12	4.2
Vitamin E	mg α TE	14	4.9	14	4.9
Vitamin C	mg	65	23	65	23
Vitamin K	µg	59	21	59	21
Thiamin	mg	1.5	0.52	1.5	0.52
Riboflavin	mg	1.5	0.52	1.5	0.52
Niacin	mg	8.6	3.0	8.6	3.0
Vitamin B6	mg	1.4	0.49	1.4	0.49
Folic acid	µg	260	91	260	91
Vitamin B12	µg	4.1	1.4	4.1	1.4
Biotin	µg	32	11	32	11
Pantothenic acid	mg	5.1	1.8	5.1	1.8
Choline	mg	510	178	510	178
MINERALS					
Sodium	mg	810	283	810	283
Potassium	mg	590	206	590	206
Chloride	mg	20	7.0	20	7.0
Calcium	mg	1010	353	1010	353
Phosphorus	mg	1050	367	1050	367
Magnesium	mg	290	101	290	101
Iron	mg	19	6.6	19	6.6
Copper	mg	1.5	0.52	1.5	0.52
Zinc	mg	19	6.6	19	6.6
Manganese	mg	1.0	0.35	1.0	0.35
Iodine	µg	210	74	210	74
Molybdenum	µg	51	18	51	18
Selenium	µg	76	27	76	27
Chromium	µg	30	10	30	10
AMINO ACIDS					
L-Alanine	g	2.36	0.83	2.36	0.83
L-Arginine	g	2.73	0.96	2.73	0.96
L-Aspartic acid	g	3.73	1.31	3.73	1.31
L-Cystine	g	0.69	0.24	0.69	0.24
L-Glutamine	g	7.72	2.70	7.72	2.70
Glycine	g	2.02	0.71	2.02	0.71
L-Histidine	g	2.01	0.70	2.01	0.70
L-Isoleucine	g	4.06	1.42	4.06	1.42
L-Leucine	g	8.62	3.02	8.62	3.02
L-Lysine	g	2.72	0.95	2.72	0.95
L-Methionine	g	0.80	0.28	0.80	0.28
L-Phenylalanine	mg	104	36	104	36
L-Proline	g	4.58	1.60	4.58	1.60
L-Serine	g	2.88	1.01	2.88	1.01
L-Threonine	g	6.55	2.29	6.55	2.29
L-Tryptophan	g	1.15	0.40	1.15	0.40
L-Tyrosine	g	6.43	2.25	6.43	2.25
L-Valine	g	3.27	1.14	3.27	1.14

A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored, Orange, Lemon, and Tropical flavors

Osmolality

25 g (1 packet) + 80 ml (2.7 fl oz) water = 1896 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCP/CS Code
Unflavored	30 x 25 g packets	50600-0532-06	B4162 & B4157
Orange	30 x 25 g packets	50600-0532-20	B4162 & B4157
Lemon	30 x 25 g packets	50600-0533-05	B4162 & B4157
Tropical	30 x 25 g packets	50600-0533-36	B4162 & B4157

PKU express15 (Unflavored) – Ingredients: Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, L-Valine, L-Glutamine, L-Proline, L-Threonine, L-Isoleucine, Calcium Phosphate, L-Serine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Alanine, L-Histidine, Choline Bitartrate, L-Cystine, L-Tryptophan, L-Methionine, Salt, L-Arginine, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

Flavored versions contain sweetener.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

PKU express15 Nutrition Information

	Units	Unflavored		Flavored	
		per 100 g	per 25 g (1 packet)	per 100 g	per 25 g (1 packet)
Calories	kcal	297	74	281	70
Protein equivalent	g	60	15	60	15
Total Carbohydrate	g	13.7	3.4	9.7	2.4
Sugars	g	1.0	0.2	3.6	0.9
Total Fat	g	0.20	0.05	0.20	0.05
Saturated Fat	g	0	0	0	0
VITAMINS					
Vitamin A	µg RE	740	185	740	185
Vitamin D	µg	11.7	2.9	11.7	2.9
Vitamin E	mg α TE	14	3.5	14	3.5
Vitamin C	mg	96	24	96	24
Vitamin K	µg	89	22	89	22
Thiamin	mg	1.8	0.45	1.8	0.45
Riboflavin	mg	2.0	0.50	2.0	0.50
Niacin	mg	22	5.5	22	5.5
Vitamin B6	mg	2.5	0.63	2.5	0.63
Folic acid	µg	360	90	360	90
Vitamin B12	µg	4.3	1.1	4.3	1.1
Biotin	µg	170	43	170	43
Pantothenic acid	mg	7.1	1.8	7.1	1.8
Choline	mg	530	133	530	133
MINERALS					
Sodium	mg	510	128	450	113
Potassium	mg	840	210	840	210
Chloride	mg	650	163	650	163
Calcium	mg	1090	273	1090	273
Phosphorus	mg	990	248	990	248
Magnesium	mg	330	83	330	83
Iron	mg	19	4.8	19	4.8
Copper	mg	2.0	0.50	2.0	0.50
Zinc	mg	19	4.8	19	4.8
Manganese	mg	2.8	0.70	2.8	0.70
Iodine	µg	220	55	220	55
Molybdenum	µg	130	33	130	33
Selenium	µg	78	20	78	20
Chromium	µg	78	20	78	20
AMINO ACIDS					
L-Alanine	g	2.56	0.64	2.56	0.64
L-Arginine	g	4.14	1.04	4.14	1.04
L-Aspartic acid	g	6.56	1.64	6.56	1.64
L-Cystine	g	1.67	0.42	1.67	0.42
L-Glutamine	g	5.12	1.28	5.12	1.28
Glycine	g	6.53	1.63	6.53	1.63
L-Histidine	g	2.55	0.64	2.55	0.64
L-Isoleucine	g	4.47	1.12	4.47	1.12
L-Leucine	g	7.02	1.76	7.02	1.76
L-Lysine	g	4.64	1.16	4.64	1.16
L-Methionine	g	1.24	0.31	1.24	0.31
L-Phenylalanine*	g	0	0	0	0
L-Proline	g	4.67	1.17	4.67	1.17
L-Serine	g	2.91	0.73	2.91	0.73
L-Threonine	g	4.54	1.14	4.54	1.14
L-Tryptophan	g	1.40	0.35	1.40	0.35
L-Tyrosine	g	6.59	1.65	6.59	1.65
L-Valine	g	5.17	1.29	5.17	1.29
L-Carnitine	mg	64	16	64	16
Taurine	mg	132	33	132	33

*No added phenylalanine.



A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored, Orange, Lemon, and Tropical flavors

Osmolality

34 g (1 packet) + 80 ml (2.7 fl oz) water = 2380 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPSC Code
Unflavored	30 x 34 g packets	50600-0516-39	B4162 & B4157
Orange	30 x 34 g packets	50600-0517-69	B4162 & B4157
Lemon	30 x 34 g packets	50600-0517-76	B4162 & B4157
Tropical	30 x 34 g packets	50600-0517-83	B4162 & B4157

PKU express20 (Unflavored) – Ingredients: Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, L-Valine, L-Glutamine, L-Proline, L-Threonine, L-Isoleucine, Calcium Phosphate, L-Serine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Alanine, L-Histidine, Choline Bitartrate, L-Cystine, L-Tryptophan, L-Methionine, Salt, L-Arginine, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine, L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

Flavored versions contain sweetener.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

PKU express20 Nutrition Information

	Units	Unflavored		Flavored	
		per 100 g	per 34 g (1 packet)	per 100 g	per 34 g (1 packet)
Calories	kcal	297	101	281	95
Protein equivalent	g	60	20	60	20
Total Carbohydrate	g	13.7	4.7	9.7	3.3
Sugars	g	1.0	0.3	3.6	1.2
Total Fat	g	0.20	0.07	0.20	0.07
Saturated Fat	g	0	0	0	0
VITAMINS					
Vitamin A	µg RE	740	252	740	252
Vitamin D	µg	11.7	4.0	11.7	4.0
Vitamin E	mg α TE	14	4.7	14	4.7
Vitamin C	mg	96	33	96	33
Vitamin K	µg	89	30	89	30
Thiamin	mg	1.8	0.61	1.8	0.61
Riboflavin	mg	2.0	0.68	2.0	0.68
Niacin	mg	22	7.5	22	7.5
Vitamin B6	mg	2.5	0.85	2.5	0.85
Folic acid	µg	360	122	360	122
Vitamin B12	µg	4.3	1.5	4.3	1.5
Biotin	µg	170	58	170	58
Pantothenic acid	mg	7.1	2.4	7.1	2.4
Choline	mg	530	180	530	180
MINERALS					
Sodium	mg	510	173	450	153
Potassium	mg	840	286	840	286
Chloride	mg	650	221	650	221
Calcium	mg	1090	371	1090	371
Phosphorus	mg	990	337	990	337
Magnesium	mg	330	112	330	112
Iron	mg	19	6.5	19	6.5
Copper	mg	2.0	0.68	2.0	0.68
Zinc	mg	19	6.5	19	6.5
Manganese	mg	2.8	0.95	2.8	0.95
Iodine	µg	220	75	220	75
Molybdenum	µg	130	44	130	44
Selenium	µg	78	27	78	27
Chromium	µg	78	27	78	27
AMINO ACIDS					
L-Alanine	g	2.56	0.87	2.56	0.87
L-Arginine	g	4.14	1.41	4.14	1.41
L-Aspartic acid	g	6.56	2.23	6.56	2.23
L-Cystine	g	1.67	0.57	1.67	0.57
L-Glutamine	g	5.12	1.73	5.12	1.73
Glycine	g	6.53	2.22	6.53	2.22
L-Histidine	g	2.55	0.87	2.55	0.87
L-Isoleucine	g	4.47	1.52	4.47	1.52
L-Leucine	g	7.02	2.39	7.02	2.39
L-Lysine	g	4.64	1.58	4.64	1.58
L-Methionine	g	1.24	0.42	1.24	0.42
L-Phenylalanine*	g	0	0	0	0
L-Proline	g	4.67	1.59	4.67	1.59
L-Serine	g	2.91	0.99	2.91	0.99
L-Threonine	g	4.54	1.54	4.54	1.54
L-Tryptophan	g	1.40	0.48	1.40	0.48
L-Tyrosine	g	6.59	2.24	6.59	2.24
L-Valine	g	5.17	1.76	5.17	1.76
L-Carnitine	mg	64	22	64	22
Taurine	mg	132	45	132	45

*No added phenylalanine.



A ready-to-drink phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 10 g protein equivalent
- Available in Orange, Purple, White, and Red flavors

Osmolality: 1550 mOsm/kg

See page 96 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCP Code
Orange	30 x 87 ml pouches	50600-0548-52	B4162 & B4157
Purple	30 x 87 ml pouches	50600-0548-76	B4162 & B4157
White	30 x 87 ml pouches	50600-0549-99	B4162 & B4157
Red	30 x 87 ml pouches	50600-0513-18	B4162 & B4157

PKU cooler10 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, Malic Acid, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Modified Corn Starch, Natural and Artificial Flavor, Soy Lecithin, Calcium Phosphate, L-Serine, L-Alanine, L-Histidine, Glucose Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, L-Methionine, L-Arginine, Salt, Maltodextrin, Carmine (Color), Ascorbic Acid, Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

PKU cooler10 Nutrition Information

	Units	per 100 ml	per 87 ml (1 pouch)
Calories	kcal	75	65
Protein equivalent	g	11.5	10
Total Carbohydrate	g	5.1	4.4
Sugars	g	3.4	3.0
Total Fat	g	0.9	0.8
Saturated Fat	g	0.2	0.2
Docosahexaenoic Acid (DHA)	mg	77	67
VITAMINS			
Vitamin A	µg RE	133	116
Vitamin D	µg	5.1	4.4
Vitamin E	mg α TE	2.7	2.3
Vitamin C	mg	19	17
Vitamin K	µg	12	10
Thiamin	mg	0.35	0.30
Riboflavin	mg	0.39	0.34
Niacin	mg	1.8	1.6
Vitamin B6	mg	0.44	0.38
Folic acid	µg	51	44
Vitamin B12	µg	0.82	0.71
Biotin	µg	6.7	5.8
Pantothenic acid	mg	0.98	0.85
Choline	mg	102	89
MINERALS			
Sodium	mg	60	52
Potassium	mg	124	108
Chloride	mg	71	62
Calcium	mg	210	183
Phosphorus	mg	190	165
Magnesium	mg	60	52
Iron	mg	3.7	3.2
Copper	mg	0.37	0.32
Zinc	mg	2.8	2.4
Manganese	mg	0.25	0.22
Iodine	µg	45	39
Molybdenum	µg	11	10
Selenium	µg	13	11
Chromium	µg	7.1	6.2
AMINO ACIDS			
L-Alanine	g	0.53	0.46
L-Arginine	g	0.86	0.75
L-Aspartic acid	g	1.36	1.18
L-Cystine	g	0.35	0.30
L-Glutamine	g	0	0
Glycine	g	1.35	1.17
L-Histidine	g	0.53	0.46
L-Isoleucine	g	0.93	0.81
L-Leucine	g	1.46	1.27
L-Lysine	g	0.96	0.84
L-Methionine	g	0.26	0.23
L-Phenylalanine*	g	0	0
L-Proline	g	0.97	0.84
L-Serine	g	0.60	0.52
L-Threonine	g	0.93	0.81
L-Tryptophan	g	0.29	0.25
L-Tyrosine	g	1.37	1.19
L-Valine	g	1.07	0.93
L-Carnitine	mg	13	11
Taurine	mg	25	22

*No added phenylalanine.



cooler¹⁵

A ready-to-drink phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Orange, Purple, White, and Red flavors

Osmolality: 1550 mOsm/kg

See page 96 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Orange	30 x 130 ml pouches	50600-0545-00	B4162 & B4157
Purple	30 x 130 ml pouches	50600-0545-62	B4162 & B4157
White	30 x 130 ml pouches	50600-0549-75	B4162 & B4157
Red	30 x 130 ml pouches	50600-0519-98	B4162 & B4157

PKU cooler15 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, Malic Acid, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Modified Corn Starch, Natural and Artificial Flavor, Soy Lecithin, Calcium Phosphate, L-Serine, L-Alanine, L-Histidine, Glucose Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, L-Methionine, L-Arginine, Salt, Maltodextrin, Carmine (Color), Ascorbic Acid, Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

PKU cooler15 Nutrition Information

	Units	per 100 ml	per 130 ml (1 pouch)
Calories	kcal	75	97
Protein equivalent	g	11.5	15
Total Carbohydrate	g	5.1	6.6
Sugars	g	3.4	4.4
Total Fat	g	0.9	1.2
Saturated Fat	g	0.2	0.3
Docosahexaenoic Acid (DHA)	mg	77	100
VITAMINS			
Vitamin A	µg RE	133	173
Vitamin D	µg	5.1	6.6
Vitamin E	mg α TE	2.7	3.5
Vitamin C	mg	19	25
Vitamin K	µg	12	16
Thiamin	mg	0.35	0.46
Riboflavin	mg	0.39	0.51
Niacin	mg	1.8	2.3
Vitamin B6	mg	0.44	0.57
Folic acid	µg	51	66
Vitamin B12	µg	0.82	1.1
Biotin	µg	6.7	8.7
Pantothenic acid	mg	0.98	1.3
Choline	mg	102	133
MINERALS			
Sodium	mg	60	78
Potassium	mg	124	161
Chloride	mg	71	92
Calcium	mg	210	273
Phosphorus	mg	190	247
Magnesium	mg	60	78
Iron	mg	3.7	4.8
Copper	mg	0.37	0.48
Zinc	mg	2.8	3.6
Manganese	mg	0.25	0.33
Iodine	µg	45	59
Molybdenum	µg	11	14
Selenium	µg	13	17
Chromium	µg	7.1	9.2
AMINO ACIDS			
L-Alanine	g	0.53	0.69
L-Arginine	g	0.86	1.12
L-Aspartic acid	g	1.36	1.77
L-Cystine	g	0.35	0.46
L-Glutamine	g	0	0
Glycine	g	1.35	1.76
L-Histidine	g	0.53	0.69
L-Isoleucine	g	0.93	1.21
L-Leucine	g	1.46	1.90
L-Lysine	g	0.96	1.25
L-Methionine	g	0.26	0.34
L-Phenylalanine*	g	0	0
L-Proline	g	0.97	1.26
L-Serine	g	0.60	0.78
L-Threonine	g	0.93	1.21
L-Tryptophan	g	0.29	0.38
L-Tyrosine	g	1.37	1.78
L-Valine	g	1.07	1.39
L-Carnitine	mg	13	17
Taurine	mg	25	33

*No added phenylalanine.



A ready-to-drink phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 20 g protein equivalent
- Available in Orange, Purple, White, and Red flavors

Osmolality: 1550 mOsm/kg

See page 96 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Orange	30 x 174 ml pouches	50600-0548-14	B4162 & B4157
Purple	30 x 174 ml pouches	50600-0548-38	B4162 & B4157
White	30 x 174 ml pouches	50600-0550-19	B4162 & B4157
Red	30 x 174 ml pouches	50600-0520-01	B4162 & B4157

PKU cooler20 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, Malic Acid, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Modified Corn Starch, Natural and Artificial Flavor, Soy Lecithin, Calcium Phosphate, L-Serine, L-Alanine, L-Histidine, Glucose Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, L-Methionine, L-Arginine, Salt, Maltodextrin, Carmine (Color), Ascorbic Acid, Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

PKU cooler20 Nutrition Information

	Units	per 100 ml	per 174 ml (1 pouch)
Calories	kcal	75	130
Protein equivalent	g	11.5	20
Total Carbohydrate	g	5.1	8.9
Sugars	g	3.4	5.9
Total Fat	g	0.9	1.6
Saturated Fat	g	0.2	0.3
Docosahexaenoic Acid (DHA)	mg	77	134
VITAMINS			
Vitamin A	µg RE	133	231
Vitamin D	µg	5.1	8.9
Vitamin E	mg α TE	2.7	4.7
Vitamin C	mg	19	33
Vitamin K	µg	12	21
Thiamin	mg	0.35	0.61
Riboflavin	mg	0.39	0.68
Niacin	mg	1.8	3.1
Vitamin B6	mg	0.44	0.77
Folic acid	µg	51	89
Vitamin B12	µg	0.82	1.4
Biotin	µg	6.7	11.6
Pantothenic acid	mg	0.98	1.7
Choline	mg	102	178
MINERALS			
Sodium	mg	60	104
Potassium	mg	124	216
Chloride	mg	71	124
Calcium	mg	210	365
Phosphorus	mg	190	331
Magnesium	mg	60	104
Iron	mg	3.7	6.4
Copper	mg	0.37	0.64
Zinc	mg	2.8	4.9
Manganese	mg	0.25	0.44
Iodine	µg	45	78
Molybdenum	µg	11	19
Selenium	µg	13	23
Chromium	µg	7.1	12
AMINO ACIDS			
L-Alanine	g	0.53	0.92
L-Arginine	g	0.86	1.50
L-Aspartic acid	g	1.36	2.37
L-Cystine	g	0.35	0.61
L-Glutamine	g	0	0
Glycine	g	1.35	2.35
L-Histidine	g	0.53	0.92
L-Isoleucine	g	0.93	1.62
L-Leucine	g	1.46	2.54
L-Lysine	g	0.96	1.67
L-Methionine	g	0.26	0.45
L-Phenylalanine*	g	0	0
L-Proline	g	0.97	1.69
L-Serine	g	0.60	1.04
L-Threonine	g	0.93	1.62
L-Tryptophan	g	0.29	0.50
L-Tyrosine	g	1.37	2.38
L-Valine	g	1.07	1.86
L-Carnitine	mg	13	23
Taurine	mg	25	44

*No added phenylalanine.



A ready-to-drink phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- Low in sugar
- 1 pouch provides 20 g protein equivalent
- Available in Gold, Green, and Yellow flavors
- Specifically designed with teens and adults in mind

Osmolality: 1400 mOsm/kg

See page 97 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Gold	30 x 174 ml pouches	50600-0216-98	B4162 & B4157
Green	30 x 174 ml pouches	50600-0217-04	B4162 & B4157
Yellow	30 x 174 ml pouches	50600-0217-11	B4162 & B4157

PKU air (Yellow) – Ingredients: Water, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, Malic Acid, L-Arginine L-Aspartate, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Modified Corn Starch, Calcium Phosphate, L-Serine, Soy Lecithin, L-Alanine, L-Histidine, Glucose Syrup Solids, Magnesium Hydrogen Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, Natural and Artificial Flavor, L-Methionine, L-Arginine, L-Ascorbic Acid, Salt, Maltodextrin, Xanthan Gum, Acesulfame Potassium, Beta Carotene (Color), Zinc Gluconate, Taurine, Sucralose, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Iron Sulfate, Copper Gluconate, Manganese Gluconate, Niacinamide, Vitamin E Acetate, Sodium Selenite, Calcium Panthothenate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Chromium Chloride, Sodium Molybdate, Folic Acid, Potassium Iodide, Biotin, Vitamin K, Vitamin D, Vitamin B12.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

PKU air20 Nutrition Information

	Units	per 100 ml	per 174 ml (1 pouch)
Calories	kcal	57	100
Protein equivalent	g	11.5	20
Total Carbohydrate	g	1.5	2.6
Sugars	g	0.2	0.3
Total Fat	g	0.6	1.0
Saturated Fat	g	0.2	0.3
Docosahexaenoic Acid (DHA)	mg	68	118
VITAMINS			
Vitamin A	µg RE	130	226
Vitamin D	µg	5.1	8.9
Vitamin E	mg α TE	2.7	4.7
Vitamin C	mg	19	33
Vitamin K	µg	12	22
Thiamin	mg	0.36	0.63
Riboflavin	mg	0.39	0.68
Niacin	mg	1.8	3.1
Vitamin B6	mg	0.44	0.77
Folic Acid	µg	51	89
Vitamin B12	µg	0.82	1.4
Biotin	µg	6.7	12
Pantothenic acid	mg	1.0	1.7
Choline	mg	102	178
MINERALS			
Sodium	mg	60	104
Potassium	mg	120	209
Chloride	mg	70	122
Calcium	mg	210	365
Phosphorus	mg	190	331
Magnesium	mg	60	104
Iron	mg	3.7	6.4
Copper	mg	0.37	0.64
Zinc	mg	2.8	4.9
Manganese	mg	0.26	0.45
Iodine	µg	45	78
Molybdenum	µg	11	19
Selenium	µg	13	23
Chromium	µg	7.1	12
AMINO ACIDS			
L-Alanine	g	0.53	0.92
L-Arginine	g	0.86	1.50
L-Aspartic Acid	g	1.36	2.37
L-Cystine	g	0.35	0.61
L-Glutamine	g	0	0
Glycine	g	1.35	2.35
L-Histidine	g	0.53	0.92
L-Isoleucine	g	0.93	1.62
L-Leucine	g	1.46	2.54
L-Lysine	g	0.96	1.67
L-Methionine	g	0.26	0.45
L-Phenylalanine*	g	0	0
L-Proline	g	0.97	1.69
L-Serine	g	0.60	1.04
L-Threonine	g	0.93	1.62
L-Tryptophan	g	0.29	0.50
L-Tyrosine	g	1.37	2.38
L-Valine	g	1.07	1.86
L-Carnitine	mg	13	23
Taurine	mg	25	44

*No added phenylalanine.



A powdered leucine-, isoleucine-, and valine-free medical food for use in the dietary management of Maple Syrup Urine Disease.

Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages into a gel/paste or low volume drink
- Available in Unflavored

Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 93 for directions for use



Ordering/Reimbursement Information

Packaging	Reimbursement Code	HCPCS Code
Unflavored 30 x 24 g packets	50600-0514-93	B4162

MSUD gel (Unflavored) – Ingredients: Sugar, Corn Starch, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Alanine, L-Glutamine, Modified Corn Starch, L-Proline, Glycine, L-Serine, L-Tyrosine, L-Phenylalanine, L-Threonine, Calcium Phosphate, L-Histidine, L-Tryptophan, L-Cystine, Calcium Glycerophosphate, Sodium Citrate, Magnesium Phosphate Dibasic, L-Arginine, Potassium Chloride, L-Methionine, Potassium Citrate, Choline Bitartrate, Maltodextrin, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-Tartrate, Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin K, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin B12.

MSUD gel Nutrition Information

	Units	per 100 g	per 24 g (1 packet)
Calories	kcal	338	81
Protein equivalent	g	41.7	10
Total Carbohydrate	g	43	10.3
Sugars	g	27	6.5
Total Fat	g	0	0
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	530	127
Vitamin D	µg	13	3.1
Vitamin E	mg α TE	8	1.9
Vitamin C	mg	56	13
Vitamin K	µg	36	8.6
Thiamin	mg	0.89	0.21
Riboflavin	mg	1.1	0.26
Niacin	mg	12	2.9
Vitamin B6	mg	0.98	0.24
Folic acid	µg	180	43
Vitamin B12	µg	1.8	0.43
Biotin	µg	22	5.3
Pantothenic acid	mg	4.4	1.1
Choline	mg	250	60
MINERALS			
Sodium	mg	379	91
Potassium	mg	830	200
Chloride	mg	520	125
Calcium	mg	1080	260
Phosphorus	mg	730	175
Magnesium	mg	150	36
Iron	mg	12.4	3.0
Copper	mg	0.70	0.17
Zinc	mg	10	2.4
Manganese	mg	1.5	0.36
Iodine	µg	120	29
Molybdenum	µg	44	11
Selenium	µg	31	7.4
Chromium	µg	63	15
AMINO ACIDS			
L-Alanine	g	5.11	1.23
L-Arginine	g	4.85	1.16
L-Aspartic acid	g	6.13	1.47
L-Cystine	g	1.45	0.35
L-Glutamine	g	5.51	1.32
Glycine	g	4.06	0.97
L-Histidine	g	1.74	0.42
L-Isoleucine*	g	0	0
L-Leucine*	g	0	0
L-Lysine	g	3.65	0.88
L-Methionine	g	1.05	0.25
L-Phenylalanine	g	2.73	0.66
L-Proline	g	4.29	1.03
L-Serine	g	2.90	0.70
L-Threonine	g	2.61	0.63
L-Tryptophan	g	1.45	0.35
L-Tyrosine	g	2.90	0.70
L-Valine*	g	0	0
L-Carnitine	mg	46	11
Taurine	mg	92	22

*No added leucine, isoleucine, and valine.



A powdered leucine-, isoleucine-, and valine-free medical food for use in the dietary management of Maple Syrup Urine Disease.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

Osmolality

25 g (1 packet) + 80 ml (2.7 fl oz) water = 1896 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	30 x 25 g packets	50600-0535-34	B4162 & B4157

MSUD express15 (Unflavored) – Ingredients: Dried Glucose Syrup, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Glutamine, L-Alanine, L-Proline, Glycine, L-Serine, L-Tyrosine, L-Phenylalanine, L-Threonine, Calcium Phosphate, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Histidine, L-Cystine, L-Tryptophan, Choline Bitartrate, L-Arginine, L-Methionine, Salt, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

MSUD express15 Nutrition Information

	Units	per 100 g	per 25 g (1 packet)
Calories	kcal	297	74
Protein equivalent	g	60	15
Total Carbohydrate	g	13.7	3.4
Sugars	g	1.0	0.2
Total Fat	g	0.20	0.05
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	740	185
Vitamin D	µg	11.7	2.9
Vitamin E	mg α TE	14	3.5
Vitamin C	mg	96	24
Vitamin K	µg	89	22
Thiamin	mg	1.8	0.45
Riboflavin	mg	2.0	0.5
Niacin	mg	22	5.5
Vitamin B6	mg	2.5	0.63
Folic acid	µg	360	90
Vitamin B12	µg	4.3	1.1
Biotin	µg	170	43
Pantothenic acid	mg	7.1	1.8
Choline	mg	530	133
MINERALS			
Sodium	mg	510	128
Potassium	mg	840	210
Chloride	mg	650	163
Calcium	mg	1090	273
Phosphorus	mg	990	248
Magnesium	mg	330	83
Iron	mg	19	4.8
Copper	mg	2.0	0.5
Zinc	mg	19	4.8
Manganese	mg	2.8	0.70
Iodine	µg	220	55
Molybdenum	µg	130	33
Selenium	µg	78	20
Chromium	µg	78	20
AMINO ACIDS			
L-Alanine	g	7.23	1.81
L-Arginine	g	6.85	1.71
L-Aspartic acid	g	8.68	2.17
L-Cystine	g	2.05	0.51
L-Glutamine	g	7.80	1.95
Glycine	g	5.75	1.44
L-Histidine	g	2.46	0.62
L-Isoleucine*	g	0	0
L-Leucine*	g	0	0
L-Lysine	g	5.16	1.29
L-Methionine	g	1.48	0.37
L-Phenylalanine	g	3.86	0.97
L-Proline	g	6.09	1.52
L-Serine	g	4.12	1.03
L-Threonine	g	3.70	0.93
L-Tryptophan	g	2.05	0.51
L-Tyrosine	g	4.10	1.03
L-Valine*	g	0	0
L-Carnitine	mg	64	16
Taurine	mg	132	33

*No added leucine, isoleucine, and valine.

A powdered leucine-, isoleucine-, and valine-free medical food for use in the dietary management of Maple Syrup Urine Disease.

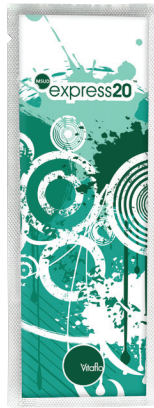
Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

Osmolality

34 g (1 packet) + 80 ml (2.7 fl oz) water = 2380 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	30 x 34 g packets	50600-0516-53	B4162 & B4157

MSUD express20 (Unflavored) – Ingredients: Dried Glucose Syrup, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Glutamine, L-Alanine, L-Proline, Glycine, L-Serine, L-Tyrosine, L-Phenylalanine, L-Threonine, Calcium Phosphate, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Histidine, L-Cystine, L-Tryptophan, Choline Bitartrate, L-Arginine, L-Methionine, Salt, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopherol Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

MSUD express20 Nutrition Information

	Units	per 100 g	per 34 g (1 packet)
Calories	kcal	297	101
Protein equivalent	g	60	20
Total Carbohydrate	g	13.7	4.7
Sugars	g	1.0	0.3
Total Fat	g	0.20	0.07
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	740	252
Vitamin D	µg	11.7	4.0
Vitamin E	mg α TE	14	4.7
Vitamin C	mg	96	33
Vitamin K	µg	89	30
Thiamin	mg	1.8	0.61
Riboflavin	mg	2.0	0.68
Niacin	mg	22	7.5
Vitamin B6	mg	2.5	0.85
Folic acid	µg	360	122
Vitamin B12	µg	4.3	1.5
Biotin	µg	170	58
Pantothenic acid	mg	7.1	2.4
Choline	mg	530	180
MINERALS			
Sodium	mg	510	173
Potassium	mg	840	286
Chloride	mg	650	221
Calcium	mg	1090	371
Phosphorus	mg	990	337
Magnesium	mg	330	112
Iron	mg	19	6.5
Copper	mg	2.0	0.68
Zinc	mg	19	6.5
Manganese	mg	2.8	0.95
Iodine	µg	220	75
Molybdenum	µg	130	44
Selenium	µg	78	27
Chromium	µg	78	27
AMINO ACIDS			
L-Alanine	g	7.23	2.46
L-Arginine	g	6.85	2.33
L-Aspartic acid	g	8.68	2.95
L-Cystine	g	2.05	0.70
L-Glutamine	g	7.80	2.65
Glycine	g	5.75	1.96
L-Histidine	g	2.46	0.84
L-Isoleucine*	g	0	0
L-Leucine*	g	0	0
L-Lysine	g	5.16	1.75
L-Methionine	g	1.48	0.50
L-Phenylalanine	g	3.86	1.31
L-Proline	g	6.09	2.07
L-Serine	g	4.12	1.40
L-Threonine	g	3.70	1.26
L-Tryptophan	g	2.05	0.70
L-Tyrosine	g	4.10	1.39
L-Valine*	g	0	0
L-Carnitine	mg	64	22
Taurine	mg	132	45

*No added leucine, isoleucine, and valine.



A ready-to-drink leucine-, isoleucine- and valine-free medical food for use in the dietary management of Maple Syrup Urine Disease.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Orange and Red flavors

Osmolality: 1550 mOsm/kg

See page 96 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Orange	30 x 130 ml pouches	50600-0546-54	B4162 & B4157
Red	30 x 130 ml pouches	50600-0509-15	B4162 & B4157

MSUD cooler15 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Alanine, L-Proline, Malic Acid, Glycine, Modified Corn Starch, L-Serine, L-Tyrosine, Natural and Artificial Flavor, L-Phenylalanine, L-Threonine, Soy Lecithin, Calcium Phosphate, L-Histidine, Glucose Syrup, Magnesium Phosphate, L-Cystine, L-Tryptophan, Refined Tuna Oil (Fish), L-Arginine, Choline Bitartrate, Potassium Citrate, L-Methionine, Salt, Maltodextrin, Carmine (Color), Ascorbic Acid, Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options available at www.VitafloUSA.com

MSUD cooler15 Nutrition Information

	Units	per 100 ml	130 ml (1 pouch)
Calories	kcal	75	97
Protein equivalent	g	11.5	15
Total Carbohydrate	g	5.1	6.6
Sugars	g	3.4	4.4
Total Fat	g	0.9	1.2
Saturated Fat	g	0.2	0.3
Docosahexaenoic Acid (DHA)	mg	77	100
VITAMINS			
Vitamin A	µg RE	133	173
Vitamin D	µg	5.1	6.6
Vitamin E	mg α TE	2.7	3.5
Vitamin C	mg	19	25
Vitamin K	µg	12	16
Thiamin	mg	0.35	0.46
Riboflavin	mg	0.39	0.51
Niacin	mg	1.8	2.3
Vitamin B6	mg	0.44	0.57
Folic acid	µg	51	66
Vitamin B12	µg	0.82	1.1
Biotin	µg	6.7	8.7
Pantothenic acid	mg	0.98	1.3
Choline	mg	102	133
MINERALS			
Sodium	mg	60	78
Potassium	mg	124	161
Chloride	mg	71	92
Calcium	mg	210	273
Phosphorus	mg	190	247
Magnesium	mg	60	78
Iron	mg	3.7	4.8
Copper	mg	0.37	0.48
Zinc	mg	2.8	3.6
Manganese	mg	0.25	0.33
Iodine	µg	45	59
Molybdenum	µg	11	14
Selenium	µg	13	17
Chromium	µg	7.1	9.2
AMINO ACIDS			
L-Alanine	g	1.57	2.04
L-Arginine	g	1.49	1.94
L-Aspartic acid	g	1.88	2.44
L-Cystine	g	0.44	0.57
L-Glutamine	g	0	0
Glycine	g	1.25	1.63
L-Histidine	g	0.53	0.69
L-Isoleucine*	g	0	0
L-Leucine*	g	0	0
L-Lysine	g	1.12	1.46
L-Methionine	g	0.32	0.42
L-Phenylalanine	g	0.84	1.09
L-Proline	g	1.32	1.72
L-Serine	g	0.89	1.16
L-Threonine	g	0.80	1.04
L-Tryptophan	g	0.45	0.59
L-Tyrosine	g	0.89	1.16
L-Valine*	g	0	0
L-Carnitine	mg	13	17
Taurine	mg	25	33

*No added leucine, isoleucine, and valine.



A powdered tyrosine- and phenylalanine-free medical food for use in the dietary management of Tyrosinemia.

Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages into a gel/paste or low volume drink
- Available in Unflavored

Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 93 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	30 x 24 g packets	50600-0515-09	B4162

TYR gel (Unflavored) – Ingredients: Sugar, Corn Starch, L-Lysine L-Aspartate, L-Leucine, L-Arginine L-Aspartate, Modified Corn Starch, L-Valine, L-Glutamine, L-Isoleucine, L-Proline, Glycine, L-Alanine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, L-Cystine, Calcium Glycerophosphate, Sodium Citrate, Magnesium Phosphate Dibasic, Potassium Chloride, L-Tryptophan, Potassium Citrate, L-Methionine, L-Arginine, Choline Bitartrate, Maltodextrin, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-Tartrate, Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin K, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin B12.

TYR gel Nutrition Information

	Units	per 100 g	per 24 g (1 packet)
Calories	kcal	338	81
Protein equivalent	g	41.7	10
Total Carbohydrate	g	43	10.3
Sugars	g	27	6.5
Total Fat	g	0	0
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	530	127
Vitamin D	µg	13	3.1
Vitamin E	mg α TE	8	1.9
Vitamin C	mg	56	13
Vitamin K	µg	36	8.6
Thiamin	mg	0.89	0.21
Riboflavin	mg	1.1	0.26
Niacin	mg	12	2.9
Vitamin B6	mg	0.98	0.24
Folic acid	µg	180	43
Vitamin B12	µg	1.8	0.43
Biotin	µg	22	5.3
Pantothenic acid	mg	4.4	1.1
Choline	mg	250	60
MINERALS			
Sodium	mg	379	91
Potassium	mg	830	200
Chloride	mg	520	125
Calcium	mg	1080	260
Phosphorus	mg	730	175
Magnesium	mg	150	36
Iron	mg	12.4	3.0
Copper	mg	0.70	0.17
Zinc	mg	10	2.4
Manganese	mg	1.5	0.36
Iodine	µg	120	29
Molybdenum	µg	44	11
Selenium	µg	31	7.4
Chromium	µg	63	15
AMINO ACIDS			
L-Alanine	g	3.12	0.75
L-Arginine	g	3.83	0.92
L-Aspartic acid	g	5.92	1.42
L-Cystine	g	1.43	0.34
L-Glutamine	g	3.79	0.91
Glycine	g	3.12	0.75
L-Histidine	g	2.09	0.50
L-Isoleucine	g	3.48	0.84
L-Leucine	g	5.57	1.34
L-Lysine	g	3.97	0.95
L-Methionine	g	0.89	0.21
L-Phenylalanine*	g	0	0
L-Proline	g	3.21	0.77
L-Serine	g	2.45	0.59
L-Threonine	g	2.67	0.64
L-Tryptophan	g	1.11	0.27
L-Tyrosine*	g	0	0
L-Valine	g	3.79	0.91
L-Carnitine	mg	46	11
Taurine	mg	92	22

*No added phenylalanine and tyrosine.



A powdered glycomacropeptide (GMP)-based low phenylalanine* and tyrosine* medical food for use in the dietary management of Tyrosinemia.

Features

- Suitable from 3 years of age
- A blend of glycomacropeptide (GMP), essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 1 packet provides 20 g protein equivalent from GMP and amino acids
- Available in Red Berry flavor

*Each packet of TYR sphere20 contains 36 mg of phenylalanine and less than 10.5 mg of tyrosine.

Osmolality

27 g (1 packet) + 120 ml (4 fl oz) water = 1000 mOsm/kg

See page 94 for directions for use

Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Red Berry	30 x 35 g packets	50600-0220-91	B4157 & B4162

TYR sphere (Red Berry) – Ingredients: Whey protein isolate (milk), L-leucine, Natural and artificial flavor, Glycine, Modified corn starch, L-arginine, Sugar, Soy lecithin, Calcium lactate, Magnesium phosphate, Calcium phosphate, Corn syrup, L-histidine, Choline bitartrate, Refined tuna oil (fish), L-tryptophan, Beet juice concentrate (color), L-lysine L-aspartate, L-cystine, Sodium ascorbate, Zinc gluconate, Maltodextrin, Sucralose, Dipotassium phosphate, Ferrous sulfate, L-methionine, DL-alpha tocopheryl acetate, Potassium iodide, Mono- and diglycerides, Chromium chloride, Sodium selenite, Sodium molybdate, Copper gluconate, Niacinamide, Manganese gluconate, Vitamin A acetate, Calcium pantothenate, Vitamin D3, Vitamin B12, Biotin, Folic acid, Thiamine hydrochloride, Pyridoxine hydrochloride, Riboflavin, Vitamin K1, Tocopherols (preservative).

Contains: Fish (tuna), Milk, and Soy.

TYR sphere20 Nutrition Information

	Units	per 100 g	per 35 g (1 packet)
Calories	kcal	340	120
Protein equivalent	g	56	20
Total Carbohydrate	g	18	6.3
Sugars	g	4.5	3.0
Total Fat	g	4.5	1.6
Saturated Fat	g	1.0	0.4
Docosahexaenoic Acid (DHA)	mg	314	110
VITAMINS			
Vitamin A	µg RE	690	241
Vitamin D	µg	12	4.2
Vitamin E	mg α TE	14	4.9
Vitamin C	mg	65	23
Vitamin K	µg	59	21
Thiamin	mg	1.5	0.52
Riboflavin	mg	1.5	0.52
Niacin	mg	8.6	3.0
Vitamin B6	mg	1.4	0.49
Folic acid	µg	260	91
Vitamin B12	µg	4.1	1.4
Biotin	µg	5.1	1.8
Pantothenic acid	mg	32	11
Choline	mg	510	178
MINERALS			
Sodium	mg	810	283
Potassium	mg	590	206
Chloride	mg	20	7.0
Calcium	mg	1010	353
Phosphorus	mg	1050	367
Magnesium	mg	290	101
Iron	mg	19.0	6.6
Copper	mg	1.5	0.52
Zinc	mg	19.0	6.6
Manganese	mg	1.0	0.35
Iodine	µg	210	74
Molybdenum	µg	51	18
Selenium	µg	76	27
Chromium	µg	30	10
AMINO ACIDS			
L-Alanine	g	2.36	0.83
L-Arginine	g	4.87	1.70
L-Aspartic acid	g	3.74	1.31
L-Cystine	g	0.69	0.24
L-Glutamine	g	7.72	2.70
Glycine	g	7.09	2.48
L-Histidine	g	2.01	0.70
L-Isoleucine	g	4.06	1.42
L-Leucine	g	8.62	3.02
L-Lysine	g	2.73	0.96
L-Methionine	g	0.80	0.28
L-Phenylalanine	mg	104	36
L-Proline	g	4.58	1.60
L-Serine	g	2.88	1.01
L-Threonine	g	6.55	2.29
L-Tryptophan	g	1.15	0.40
L-Tyrosine	mg	<30	<10.5
L-Valine	g	3.27	1.14



A powdered tyrosine- and phenylalanine-free medical food for use in the dietary management of Tyrosinemia.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

Osmolality

25 g (1 packet) + 80 ml (2.7 fl oz) water = 1896 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	30 x 25 g packets	50600-0538-48	B4162 & B4157

TYR express15 (Unflavored) – Ingredients: Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Arginine L-Aspartate, L-Glutamine, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Alanine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Cystine, Choline Bitartrate, L-Tryptophan, L-Methionine, Salt, L-Arginine, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

TYR express15 Nutrition Information

	Units	per 100 g	per 25 g (1 packet)
Calories	kcal	297	74
Protein equivalent	g	60	15
Total Carbohydrate	g	13.7	3.4
Sugars	g	1.0	0.2
Total Fat	g	0.20	0.05
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	740	185
Vitamin D	µg	11.7	2.9
Vitamin E	mg α TE	14	3.5
Vitamin C	mg	96	24
Vitamin K	µg	89	22
Thiamin	mg	1.8	0.45
Riboflavin	mg	2.0	0.50
Niacin	mg	22	5.5
Vitamin B6	mg	2.5	0.63
Folic acid	µg	360	90
Vitamin B12	µg	4.3	1.1
Biotin	µg	170	43
Pantothenic acid	mg	7.1	1.8
Choline	mg	530	133
MINERALS			
Sodium	mg	510	128
Potassium	mg	840	210
Chloride	mg	650	163
Calcium	mg	1090	273
Phosphorus	mg	990	248
Magnesium	mg	330	83
Iron	mg	19	4.8
Copper	mg	2.0	0.50
Zinc	mg	19	4.8
Manganese	mg	2.8	0.70
Iodine	µg	220	55
Molybdenum	µg	130	33
Selenium	µg	78	20
Chromium	µg	78	20
AMINO ACIDS			
L-Alanine	g	4.24	1.06
L-Arginine	g	5.43	1.36
L-Aspartic acid	g	8.40	2.10
L-Cystine	g	2.02	0.51
L-Glutamine	g	5.37	1.34
Glycine	g	4.42	1.11
L-Histidine	g	2.97	0.74
L-Isoleucine	g	4.93	1.23
L-Leucine	g	7.90	1.98
L-Lysine	g	5.62	1.41
L-Methionine	g	1.26	0.32
L-Phenylalanine*	g	0	0
L-Proline	g	4.55	1.14
L-Serine	g	3.47	0.87
L-Threonine	g	3.79	0.95
L-Tryptophan	g	1.58	0.40
L-Tyrosine*	g	0	0
L-Valine	g	5.37	1.34
L-Carnitine	mg	64	16
Taurine	mg	132	33

*No added phenylalanine and tyrosine.



A powdered tyrosine- and phenylalanine-free medical food for use in the dietary management of Tyrosinemia.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

Osmolality

34 g (1 packet) + 80 ml (2.7 fl oz) water = 2380 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPSC Code
Unflavored	30 x 34 g packets	50600-0516-60	B4162 & B4157

TYR express20 (Unflavored) – Ingredients: Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Arginine L-Aspartate, L-Glutamine, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Alanine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Cystine, Choline Bitartrate, L-Tryptophan, L-Methionine, Salt, L-Arginine, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

TYR express20 Nutrition Information

	Units	per 100 g	per 34 g (1 packet)
Calories	kcal	297	101
Protein equivalent	g	60	20
Total Carbohydrate	g	13.7	4.7
Sugars	g	1.0	0.3
Total Fat	g	0.20	0.07
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	740	252
Vitamin D	µg	11.7	4.0
Vitamin E	mg α TE	14	4.7
Vitamin C	mg	96	33
Vitamin K	µg	89	30
Thiamin	mg	1.8	0.61
Riboflavin	mg	2.0	0.68
Niacin	mg	22	7.5
Vitamin B6	mg	2.5	0.85
Folic acid	µg	360	122
Vitamin B12	µg	4.3	1.5
Biotin	µg	170	58
Pantothenic acid	mg	7.1	2.4
Choline	mg	530	180
MINERALS			
Sodium	mg	510	173
Potassium	mg	840	286
Chloride	mg	650	221
Calcium	mg	1090	371
Phosphorus	mg	990	337
Magnesium	mg	330	112
Iron	mg	19	6.5
Copper	mg	2.0	0.68
Zinc	mg	19	6.5
Manganese	mg	2.8	0.95
Iodine	µg	220	75
Molybdenum	µg	130	44
Selenium	µg	78	27
Chromium	µg	78	27
AMINO ACIDS			
L-Alanine	g	4.24	1.44
L-Arginine	g	5.43	1.85
L-Aspartic acid	g	8.40	2.86
L-Cystine	g	2.02	0.69
L-Glutamine	g	5.37	1.83
Glycine	g	4.42	1.50
L-Histidine	g	2.97	1.01
L-Isoleucine	g	4.93	1.68
L-Leucine	g	7.90	2.69
L-Lysine	g	5.62	1.91
L-Methionine	g	1.26	0.43
L-Phenylalanine*	g	0	0
L-Proline	g	4.55	1.55
L-Serine	g	3.47	1.18
L-Threonine	g	3.79	1.29
L-Tryptophan	g	1.58	0.54
L-Tyrosine*	g	0	0
L-Valine	g	5.37	1.83
L-Carnitine	mg	64	22
Taurine	mg	132	45

*No added phenylalanine and tyrosine.



cooler¹⁵

A ready-to-drink tyrosine- and phenylalanine-free medical food for use in the dietary management of Tyrosinemia.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Orange and Red flavors

Osmolality: 1550 mOsm/kg

See page 96 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Orange	30 x 130 ml pouches	50600-0539-92	B4162 & B4157
Red	30 x 130 ml pouches	50600-0543-26	B4162 & B4157

TYR cooler15 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Leucine, L-Arginine L-Aspartate, Malic Acid, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Alanine, Modified Corn Starch, L-Threonine, Soy Lecithin, L-Serine, L-Histidine, Calcium Phosphate, Glucose Syrup, Magnesium Phosphate, L-Cystine, Refined Tuna Oil (Fish), Choline Bitartrate, L-Tryptophan, Potassium Citrate, L-Methionine, L-Arginine, Salt, Maltodextrin, Ascorbic Acid, Natural and Artificial Flavor, Carmine (Color), Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Chromium Chloride, Sodium Molybdate.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

TYR cooler15 Nutrition Information

	Units	per 100 ml	per 130 ml (1 pouch)
Calories	kcal	75	97
Protein equivalent	g	11.5	15
Total Carbohydrate	g	5.1	6.6
Sugars	g	3.4	4.4
Total Fat	g	0.9	1.2
Saturated Fat	g	0.2	0.3
Docosahexaenoic Acid (DHA)	mg	77	100
VITAMINS			
Vitamin A	µg RE	133	173
Vitamin D	µg	5.1	6.6
Vitamin E	mg α TE	2.7	3.5
Vitamin C	mg	19	25
Vitamin K	µg	12	16
Thiamin	mg	0.35	0.46
Riboflavin	mg	0.39	0.51
Niacin	mg	1.8	2.3
Vitamin B6	mg	0.44	0.57
Folic acid	µg	51	66
Vitamin B12	µg	0.82	1.1
Biotin	µg	6.7	8.7
Pantothenic acid	mg	0.98	1.3
Choline	mg	102	133
MINERALS			
Sodium	mg	60	78
Potassium	mg	124	161
Chloride	mg	71	92
Calcium	mg	210	273
Phosphorus	mg	190	247
Magnesium	mg	60	78
Iron	mg	3.7	4.8
Copper	mg	0.37	0.48
Zinc	mg	2.8	3.6
Manganese	mg	0.25	0.33
Iodine	µg	45	59
Molybdenum	µg	11	14
Selenium	µg	13	17
Chromium	µg	7.1	9.2
AMINO ACIDS			
L-Alanine	g	0.93	1.21
L-Arginine	g	1.14	1.48
L-Aspartic acid	g	1.76	2.29
L-Cystine	g	0.42	0.55
L-Glutamine	g	0	0
Glycine	g	0.93	1.21
L-Histidine	g	0.62	0.81
L-Isoleucine	g	1.03	1.34
L-Leucine	g	1.66	2.16
L-Lysine	g	1.18	1.53
L-Methionine	g	0.27	0.35
L-Phenylalanine*	g	0	0
L-Proline	g	0.95	1.24
L-Serine	g	0.73	0.95
L-Threonine	g	0.80	1.04
L-Tryptophan	g	0.33	0.43
L-Tyrosine*	g	0	0
L-Valine	g	1.13	1.47
L-Carnitine	mg	13	17
Taurine	mg	25	33

*No added phenylalanine and tyrosine.



A powdered methionine-free medical food for use in the dietary management of Homocystinuria.

Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages into a gel/paste or low volume drink
- Available in Unflavored

Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 93 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPSC Code
Unflavored	30 x 24 g packets	50600-0514-86	B4162

HCU gel (Unflavored) – Ingredients: Sugar, Corn Starch, L-Lysine L-Aspartate, L-Leucine, Modified Corn Starch, L-Valine, L-Glutamine, L-Isoleucine, L-Proline, Glycine, L-Arginine L-Aspartate, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, L-Alanine, L-Arginine, Calcium Glycerophosphate, L-Cystine, Sodium Citrate, Magnesium Phosphate Dibasic, Potassium Chloride, L-Tryptophan, Potassium Citrate, Choline Bitartrate, Maltodextrin, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-Tartrate, Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin B12, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin K.

HCU gel Nutrition Information

	Units	per 100 g	per 24 g (1 packet)
Calories	kcal	338	81
Protein equivalent	g	41.7	10
Total Carbohydrate	g	43	10.3
Sugars	g	27	6.5
Total Fat	g	0	0
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	530	127
Vitamin D	µg	13	3.1
Vitamin E	mg α TE	8	1.9
Vitamin C	mg	56	13
Vitamin K	µg	36	8.6
Thiamin	mg	0.89	0.21
Riboflavin	mg	1.1	0.26
Niacin	mg	12	2.9
Vitamin B6	mg	0.98	0.24
Folic acid	µg	180	43
Vitamin B12	µg	1.8	0.43
Biotin	µg	22	5.3
Pantothenic acid	mg	4.4	1.1
Choline	mg	250	60
MINERALS			
Sodium	mg	379	91
Potassium	mg	830	200
Chloride	mg	520	125
Calcium	mg	1080	260
Phosphorus	mg	730	175
Magnesium	mg	150	36
Iron	mg	12.4	3.0
Copper	mg	0.70	0.17
Zinc	mg	10	2.4
Manganese	mg	1.5	0.36
Iodine	µg	120	29
Molybdenum	µg	44	11
Selenium	µg	31	7.4
Chromium	µg	63	15
AMINO ACIDS			
L-Alanine	g	2.05	0.49
L-Arginine	g	3.41	0.82
L-Aspartic acid	g	4.56	1.09
L-Cystine	g	1.37	0.33
L-Glutamine	g	4.02	0.96
Glycine	g	3.00	0.72
L-Histidine	g	2.14	0.51
L-Isoleucine	g	3.21	0.77
L-Leucine	g	5.57	1.34
L-Lysine	g	3.59	0.86
L-Methionine*	g	0	0
L-Phenylalanine	g	2.48	0.60
L-Proline	g	3.13	0.75
L-Serine	g	2.40	0.58
L-Threonine	g	2.44	0.59
L-Tryptophan	g	1.07	0.26
L-Tyrosine	g	2.46	0.59
L-Valine	g	3.53	0.85
L-Carnitine	mg	46	11
Taurine	mg	92	22

*No added methionine.

A powdered methionine-free medical food for use in the dietary management of Homocystinuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

Osmolality

25 g (1 packet) + 80 ml (2.7 fl oz) water = 1896 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

Packaging	Reimbursement Code	HCPSC Code
Unflavored 30 x 25 g packets	50600-0535-58	B4162 & B4157

HCU express15 (Unflavored) — Ingredients: Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Glutamine, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Arginine L-Aspartate, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, L-Alanine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Arginine, L-Cystine, Choline Bitartrate, L-Tryptophan, Salt, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

HCU express15 Nutrition Information

	Units	per 100 g	per 25 g (1 packet)
Calories	kcal	297	74
Protein equivalent	g	60	15
Total Carbohydrate	g	13.7	3.4
Sugars	g	1.0	0.2
Total Fat	g	0.20	0.05
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	740	185
Vitamin D	µg	11.7	2.9
Vitamin E	mg α TE	14	3.5
Vitamin C	mg	96	24
Vitamin K	µg	89	22
Thiamin	mg	1.8	0.45
Riboflavin	mg	2.0	0.50
Niacin	mg	22	5.5
Vitamin B6	mg	2.5	0.63
Folic acid	µg	360	90
Vitamin B12	µg	4.3	1.1
Biotin	µg	170	43
Pantothenic acid	mg	7.1	1.8
Choline	mg	530	133
MINERALS			
Sodium	mg	510	128
Potassium	mg	840	210
Chloride	mg	650	163
Calcium	mg	1090	273
Phosphorus	mg	990	248
Magnesium	mg	330	83
Iron	mg	19	4.8
Copper	mg	2.0	0.50
Zinc	mg	19	4.8
Manganese	mg	2.8	0.70
Iodine	µg	220	55
Molybdenum	µg	130	33
Selenium	µg	78	20
Chromium	µg	78	20
AMINO ACIDS			
L-Alanine	g	2.93	0.73
L-Arginine	g	4.86	1.22
L-Aspartic acid	g	6.51	1.63
L-Cystine	g	1.92	0.48
L-Glutamine	g	5.70	1.43
Glycine	g	4.20	1.05
L-Histidine	g	3.05	0.76
L-Isoleucine	g	4.50	1.13
L-Leucine	g	7.80	1.95
L-Lysine	g	5.03	1.26
L-Methionine*	g	0	0
L-Phenylalanine	g	3.48	0.87
L-Proline	g	4.43	1.11
L-Serine	g	3.42	0.86
L-Threonine	g	3.42	0.86
L-Tryptophan	g	1.50	0.38
L-Tyrosine	g	3.48	0.87
L-Valine	g	4.98	1.25
L-Carnitine	mg	64	16
Taurine	mg	132	33

*No added methionine.

A powdered methionine-free medical food for use in the dietary management of Homocystinuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

Osmolality

34 g (1 packet) + 80 ml (2.7 fl oz) water = 2380 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	30 x 34 g packets	50600-0516-46	B4162 & B4157

HCU express20 (Unflavored) – Ingredients: Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Glutamine, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Arginine L-Aspartate, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, L-Alanine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Arginine, L-Cystine, Choline Bitartrate, L-Tryptophan, Salt, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

HCU express20 Nutrition Information

	Units	per 100 g	per 34 g (1 packet)
Calories	kcal	297	101
Protein equivalent	g	60	20
Total Carbohydrate	g	13.7	4.7
Sugars	g	1.0	0.3
Total Fat	g	0.20	0.07
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	740	252
Vitamin D	µg	11.7	4.0
Vitamin E	mg α TE	14	4.7
Vitamin C	mg	96	33
Vitamin K	µg	89	30
Thiamin	mg	1.8	0.61
Riboflavin	mg	2.0	0.68
Niacin	mg	22	7.5
Vitamin B6	mg	2.5	0.85
Folic acid	µg	360	122
Vitamin B12	µg	4.3	1.5
Biotin	µg	170	58
Pantothenic acid	mg	7.1	2.4
Choline	mg	530	180
MINERALS			
Sodium	mg	510	173
Potassium	mg	840	286
Chloride	mg	650	221
Calcium	mg	1090	371
Phosphorus	mg	990	337
Magnesium	mg	330	112
Iron	mg	19	6.5
Copper	mg	2.0	0.68
Zinc	mg	19	6.5
Manganese	mg	2.8	0.95
Iodine	µg	220	75
Molybdenum	µg	130	44
Selenium	µg	78	27
Chromium	µg	78	27
AMINO ACIDS			
L-Alanine	g	2.93	1.00
L-Arginine	g	4.86	1.65
L-Aspartic acid	g	6.51	2.21
L-Cystine	g	1.92	0.65
L-Glutamine	g	5.70	1.94
Glycine	g	4.20	1.43
L-Histidine	g	3.05	1.04
L-Isoleucine	g	4.50	1.53
L-Leucine	g	7.80	2.65
L-Lysine	g	5.03	1.71
L-Methionine*	g	0	0
L-Phenylalanine	g	3.48	1.18
L-Proline	g	4.43	1.51
L-Serine	g	3.42	1.16
L-Threonine	g	3.42	1.16
L-Tryptophan	g	1.50	0.51
L-Tyrosine	g	3.48	1.18
L-Valine	g	4.98	1.69
L-Carnitine	mg	64	22
Taurine	mg	132	45

*No added methionine.



cooler¹⁵

A ready-to-drink methionine-free medical food for use in the dietary management of Homocystinuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Orange and Red flavors

Osmolality: 1550 mOsm/kg

See page 96 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Orange	30 x 130 ml pouches	50600-0535-27	B4162 & B4157
Red	30 x 130 ml pouches	50600-0504-34	B4162 & B4157

HCU cooler15 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Leucine, Malic Acid, L-Valine, L-Isoleucine, L-Proline, Modified Corn Starch, Glycine, L-Arginine L-Aspartate, Natural and Artificial Flavor, Soy Lecithin, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Serine, L-Histidine, Calcium Phosphate, L-Alanine, Glucose Syrup, L-Arginine, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, Salt, Maltodextrin, Carmine (Color), Ascorbic Acid, Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options available at www.VitaFloUSA.com

HCU cooler15 Nutrition Information

	Units	per 100 ml	per 130 ml (1 pouch)
Calories	kcal	75	97
Protein equivalent	g	11.5	15
Total Carbohydrate	g	5.1	6.6
Sugars	g	3.4	4.4
Total Fat	g	0.9	1.2
Saturated Fat	g	0.2	0.3
Docosahexaenoic Acid (DHA)	mg	77	100
VITAMINS			
Vitamin A	µg RE	133	173
Vitamin D	µg	5.1	6.6
Vitamin E	mg α TE	2.7	3.5
Vitamin C	mg	19	25
Vitamin K	µg	12	16
Thiamin	mg	0.35	0.46
Riboflavin	mg	0.39	0.51
Niacin	mg	1.8	2.3
Vitamin B6	mg	0.44	0.57
Folic acid	µg	51	66
Vitamin B12	µg	0.82	1.1
Biotin	µg	6.7	8.7
Pantothenic acid	mg	0.98	1.3
Choline	mg	102	133
MINERALS			
Sodium	mg	60	78
Potassium	mg	124	161
Chloride	mg	71	92
Calcium	mg	210	273
Phosphorus	mg	190	247
Magnesium	mg	60	78
Iron	mg	3.7	4.8
Copper	mg	0.37	0.48
Zinc	mg	2.8	3.6
Manganese	mg	0.25	0.33
Iodine	µg	45	59
Molybdenum	µg	11	14
Selenium	µg	13	17
Chromium	µg	7.1	9.2
AMINO ACIDS			
L-Alanine	g	0.61	0.79
L-Arginine	g	1.01	1.31
L-Aspartic acid	g	1.35	1.76
L-Cystine	g	0.41	0.53
L-Glutamine	g	0	0
Glycine	g	0.89	1.16
L-Histidine	g	0.64	0.83
L-Isoleucine	g	0.95	1.24
L-Leucine	g	1.65	2.15
L-Lysine	g	1.07	1.39
L-Methionine*	g	0	0
L-Phenylalanine	g	0.74	0.96
L-Proline	g	0.93	1.21
L-Serine	g	0.71	0.92
L-Threonine	g	0.73	0.95
L-Tryptophan	g	0.32	0.42
L-Tyrosine	g	0.73	0.95
L-Valine	g	1.05	1.37
L-Carnitine	mg	13	17
Taurine	mg	25	33

*No added methionine.



A powdered methionine-, threonine-, valine-free, and low isoleucine medical food for use in the dietary management of Methylmalonic acidemia and Propionic acidemia.

Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages into a gel/paste or low volume drink
- Available in Unflavored

Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 93 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	30 x 24 g packets	50600-0515-23	B4162

MMA/PA gel (Unflavored) – Ingredients: Sugar, Corn Starch, L-Lysine Aspartate, L-Arginine Aspartate, L-Leucine, L-Glutamine, Modified Corn Starch, L-Alanine, L-Serine, L-Histidine, L-Tyrosine, L-Phenylalanine, Calcium Phosphate, L-Proline, Glycine, L-Cystine, Calcium Glycerophosphate, Sodium Citrate, Magnesium Phosphate Dibasic, L-Tryptophan, Potassium Chloride, Potassium Citrate, Choline Bitartrate, Maltodextrin, L-Isoleucine, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-Tartrate, Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin K, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin B12.

MMA/PA gel Nutrition Information

	Units	per 100 g	per 24 g (1 packet)
Calories	kcal	338	81
Protein equivalent	g	41.7	10
Total Carbohydrate	g	43	10.3
Sugars	g	27	6.5
Total Fat	g	0	0
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	530	127
Vitamin D	µg	13	3.1
Vitamin E	mg α TE	8	1.9
Vitamin C	mg	56	13
Vitamin K	µg	36	8.6
Thiamin	mg	0.89	0.21
Riboflavin	mg	1.1	0.26
Niacin	mg	12	2.9
Vitamin B6	mg	0.98	0.24
Folic acid	µg	180	43
Vitamin B12	µg	1.8	0.43
Biotin	µg	22	5.3
Pantothenic acid	mg	4.4	1.1
Choline	mg	250	60
MINERALS			
Sodium	mg	379	91
Potassium	mg	830	200
Chloride	mg	520	125
Calcium	mg	1080	260
Phosphorus	mg	730	175
Magnesium	mg	150	36
Iron	mg	12.4	3.0
Copper	mg	0.70	0.17
Zinc	mg	10	2.4
Manganese	mg	1.5	0.36
Iodine	µg	120	29
Molybdenum	µg	44	11
Selenium	µg	31	7.4
Chromium	µg	63	15
AMINO ACIDS			
L-Alanine	g	4.15	1.00
L-Arginine	g	4.30	1.03
L-Aspartic acid	g	7.46	1.79
L-Cystine	g	1.77	0.42
L-Glutamine	g	5.06	1.21
Glycine	g	1.95	0.47
L-Histidine	g	2.78	0.67
L-Isoleucine	g	0.15	0.04
L-Leucine	g	6.58	1.58
L-Lysine	g	4.58	1.10
L-Methionine*	g	0	0
L-Phenylalanine	g	2.78	0.67
L-Proline	g	2.02	0.48
L-Serine	g	2.93	0.70
L-Threonine*	g	0	0
L-Tryptophan	g	1.11	0.27
L-Tyrosine	g	2.78	0.67
L-Valine*	g	0	0
L-Carnitine	mg	46	11
Taurine	mg	92	22

*No added methionine, threonine, and valine.

A powdered methionine-, threonine-, valine-free and low isoleucine medical food for use in the dietary management of Methylmalonic acidemia and Propionic acidemia.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Available in Unflavored

Osmolality

25 g (1 packet) + 80 ml (2.7 fl oz) water = 1896 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPSC Code
Unflavored	30 x 25 g packets	50600-0543-71	B4162 & B4157

MMA/PA express15 (Unflavored) – Ingredients: L-Lysine Aspartate, Dried Glucose Syrup, L-Arginine Aspartate, L-Leucine, L-Glutamine, L-Alanine, L-Serine, L-Tyrosine, L-Phenylalanine, L-Histidine, Calcium Phosphate, L-Proline, Glycine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Cystine, Choline Bitartrate, L-Tryptophan, Salt, Maltodextrin, Xanthan Gum, Ascorbic Acid, L-Isoleucine, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

MMA/PA express15 Nutrition Information

	Units	per 100 g	per 25 g (1 packet)
Calories	kcal	297	74
Protein equivalent	g	60	15
Total Carbohydrate	g	13.7	3.4
Sugars	g	1.0	0.2
Total Fat	g	0.20	0.05
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	740	185
Vitamin D	µg	11.7	2.9
Vitamin E	mg α TE	14	3.5
Vitamin C	mg	96	24
Vitamin K	µg	89	22
Thiamin	mg	1.8	0.45
Riboflavin	mg	2.0	0.50
Niacin	mg	22	5.5
Vitamin B6	mg	2.5	0.63
Folic acid	µg	360	90
Vitamin B12	µg	4.3	1.1
Biotin	µg	170	43
Pantothenic acid	mg	7.1	1.8
Choline	mg	530	133
MINERALS			
Sodium	mg	510	128
Potassium	mg	840	210
Chloride	mg	650	163
Calcium	mg	1090	273
Phosphorus	mg	990	248
Magnesium	mg	330	83
Iron	mg	19	4.8
Copper	mg	2.0	0.50
Zinc	mg	19	4.8
Manganese	mg	2.8	0.70
Iodine	µg	220	55
Molybdenum	µg	130	33
Selenium	µg	78	20
Chromium	µg	78	20
AMINO ACIDS			
L-Alanine	g	5.92	1.48
L-Arginine	g	6.14	1.54
L-Aspartic acid	g	10.64	2.66
L-Cystine	g	2.53	0.63
L-Glutamine	g	7.22	1.81
Glycine	g	2.79	0.70
L-Histidine	g	3.97	0.99
L-Isoleucine	g	0.22	0.06
L-Leucine	g	9.39	2.35
L-Lysine	g	6.54	1.64
L-Methionine*	g	0	0
L-Phenylalanine	g	3.97	0.99
L-Proline	g	2.89	0.72
L-Serine	g	4.19	1.05
L-Threonine*	g	0	0
L-Tryptophan	g	1.59	0.40
L-Tyrosine	g	3.97	0.99
L-Valine*	g	0	0
L-Carnitine	mg	64	16
Taurine	mg	132	33

*No added methionine, threonine, and valine.



cooler¹⁵

A ready-to-drink methionine-, threonine-, valine-free, and low isoleucine medical food for use in the dietary management of Methylmalonic acidemia and Propionic acidemia.



Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Red flavor

Osmolality: 1550 mOsm/kg

See page 96 for directions for use

Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Red	30 x 130 ml pouches	50600-0561-22	B4162 & B4157

MMA/PA cooler15 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Leucine, Malic Acid, Soy Lecithin, L-Alanine, L-Serine, Modified Corn Starch, L-Histidine, L-Phenylalanine, L-Tyrosine, Natural and Artificial Flavor, L-Proline, Glycine, Calcium Phosphate, L-Cystine, Glucose Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Tryptophan, Choline Bitartrate, Potassium Citrate, Salt, Maltodextrin, Carmine (Color), Ascorbic Acid, Xanthan Gum, Acesulfame Potassium, L-Isoleucine, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Chromium Chloride, Sodium Molybdate.

Contains: Fish (tuna) and Soy.

MMA/PA cooler15 Nutrition Information

	Units	per 100 ml	per 130 ml (1 pouch)
Calories	kcal	75	97
Protein equivalent	g	11.5	15
Total Carbohydrate	g	5.1	6.6
Sugars	g	3.4	4.4
Total Fat	g	0.9	1.2
Saturated Fat	g	0.2	0.3
Docosahexaenoic Acid (DHA)	mg	77	100
VITAMINS			
Vitamin A	µg RE	133	173
Vitamin D	µg	5.1	6.6
Vitamin E	mg α TE	2.7	3.5
Vitamin C	mg	19	25
Vitamin K	µg	12	16
Thiamin	mg	0.35	0.46
Riboflavin	mg	0.39	0.51
Niacin	mg	1.8	2.3
Vitamin B6	mg	0.44	0.57
Folic acid	µg	51	66
Vitamin B12	µg	0.82	1.1
Biotin	µg	6.7	8.7
Pantothenic acid	mg	0.98	1.3
Choline	mg	102	133
MINERALS			
Sodium	mg	60	78
Potassium	mg	124	161
Chloride	mg	71	92
Calcium	mg	210	273
Phosphorus	mg	190	247
Magnesium	mg	60	78
Iron	mg	3.7	4.8
Copper	mg	0.37	0.48
Zinc	mg	2.8	3.6
Manganese	mg	0.25	0.33
Iodine	µg	45	59
Molybdenum	µg	11	14
Selenium	µg	13	17
Chromium	µg	7.1	9.2
AMINO ACIDS			
L-Alanine	g	1.22	1.59
L-Arginine	g	1.25	1.63
L-Aspartic acid	g	2.12	2.76
L-Cystine	g	0.53	0.69
L-Glutamine	g	0	0
Glycine	g	0.58	0.75
L-Histidine	g	0.82	1.07
L-Isoleucine	g	0.04	0.05
L-Leucine	g	1.72	2.24
L-Lysine	g	1.33	1.73
L-Methionine*	g	0	0
L-Phenylalanine	g	0.82	1.07
L-Proline	g	0.60	0.78
L-Serine	g	0.90	1.17
L-Threonine*	g	0	0
L-Tryptophan	g	0.34	0.44
L-Tyrosine	g	0.82	1.07
L-Valine*	g	0	0
L-Carnitine	mg	13	17
Taurine	mg	25	33

*No added methionine, threonine, and valine.



A powdered lysine-free and low tryptophan medical food for use in the dietary management of Glutaric Aciduria Type 1.

Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 93 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	30 x 24 g packets	50600-0515-16	B4162

GA gel (Unflavored) – Ingredients: Sugar, Corn Starch, L-Leucine, Modified Corn Starch, L-Alanine, L-Valine, L-Arginine, L-Isoleucine, L-Tyrosine, L-Proline, L-Threonine, L-Serine, L-Phenylalanine, Glycine, L-Aspartic Acid, Calcium Phosphate, L-Histidine, L-Cystine, Calcium Glycerophosphate, Sodium Citrate, Magnesium Phosphate Dibasic, Potassium Chloride, L-Methionine, Potassium Citrate, Choline Bitartrate, L-Tryptophan, Maltodextrin, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-Tartrate, Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin B12, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin K.

GA gel Nutrition Information

	Units	per 100 g	per 24 g (1 packet)
Calories	kcal	338	81
Protein equivalent	g	41.7	10
Total Carbohydrate	g	43	10.3
Sugars	g	27	6.5
Total Fat	g	0	0
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	530	127
Vitamin D	µg	13	3.1
Vitamin E	mg α TE	8	1.9
Vitamin C	mg	56	13
Vitamin K	µg	36	8.6
Thiamin	mg	0.89	0.21
Riboflavin	mg	1.1	0.26
Niacin	mg	12	2.9
Vitamin B6	mg	0.98	0.24
Folic acid	µg	180	43
Vitamin B12	µg	1.8	0.43
Biotin	µg	22	5.3
Pantothenic acid	mg	4.4	1.1
Choline	mg	250	60
MINERALS			
Sodium	mg	379	91
Potassium	mg	830	200
Chloride	mg	520	125
Calcium	mg	1083	260
Phosphorus	mg	730	175
Magnesium	mg	150	36
Iron	mg	12.4	3.0
Copper	mg	0.70	0.17
Zinc	mg	10	2.4
Manganese	mg	1.5	0.36
Iodine	µg	120	29
Molybdenum	µg	44	11
Selenium	µg	31	7.4
Chromium	µg	63	15
AMINO ACIDS			
L-Alanine	g	4.47	1.07
L-Arginine	g	4.19	1.01
L-Aspartic acid	g	2.61	0.63
L-Cystine	g	1.60	0.38
L-Glutamine	g	0	0
Glycine	g	2.82	0.68
L-Histidine	g	1.97	0.47
L-Isoleucine	g	3.62	0.87
L-Leucine	g	6.28	1.51
L-Lysine*	g	0	0
L-Methionine	g	1.10	0.26
L-Phenylalanine	g	3.02	0.72
L-Proline	g	3.52	0.84
L-Serine	g	3.12	0.75
L-Threonine	g	3.37	0.81
L-Tryptophan	g	0.31	0.07
L-Tyrosine	g	3.52	0.84
L-Valine	g	4.41	1.06
L-Carnitine	mg	46	11
Taurine	mg	92	22

*No added lysine.



A powdered lysine-free and low tryptophan medical food for use in the dietary management of Glutaric Aciduria Type 1.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential of amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

Osmolality

25 g (1 packet) + 80 ml (2.7 fl oz) water = 1896 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Unflavored	30 x 25 g packets	50600-0516-22	B4162 & B4157

GA express15 (Unflavored) – Ingredients: Dried Glucose Syrup, L-Leucine, L-Alanine, L-Valine, L-Arginine, L-Isoleucine, L-Tyrosine, L-Proline, L-Threonine, L-Serine, L-Phenylalanine, Glycine, L-Aspartic Acid, Calcium Phosphate, L-Histidine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Cystine, Choline Bitartrate, L-Methionine, Salt, Maltodextrin, L-Tryptophan, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

GA express15 Nutrition Information

	Units	per 100 g	per 25 g (1 packet)
Calories	kcal	297	74
Protein equivalent	g	60	15
Total Carbohydrate	g	13.7	3.4
Sugars	g	1.0	0.2
Total Fat	g	0.20	0.05
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	740	185
Vitamin D	µg	11.7	2.9
Vitamin E	mg α TE	14	3.5
Vitamin C	mg	96	24
Vitamin K	µg	89	22
Thiamin	mg	1.8	0.45
Riboflavin	mg	2.0	0.50
Niacin	mg	22	5.5
Vitamin B6	mg	2.5	0.63
Folic acid	µg	360	90
Vitamin B12	µg	4.3	1.1
Biotin	µg	170	43
Pantothenic acid	mg	7.1	1.8
Choline	mg	530	133
MINERALS			
Sodium	mg	510	128
Potassium	mg	840	210
Chloride	mg	650	163
Calcium	mg	1090	273
Phosphorus	mg	990	248
Magnesium	mg	330	83
Iron	mg	19	4.8
Copper	mg	2.0	0.50
Zinc	mg	19	4.8
Manganese	mg	2.8	0.70
Iodine	µg	220	55
Molybdenum	µg	130	33
Selenium	µg	78	20
Chromium	µg	78	20
AMINO ACIDS			
L-Alanine	g	6.43	1.61
L-Arginine	g	6.03	1.51
L-Aspartic acid	g	3.76	0.94
L-Cystine	g	2.30	0.58
L-Glutamine	g	0	0
Glycine	g	4.05	1.01
L-Histidine	g	2.83	0.71
L-Isoleucine	g	5.21	1.30
L-Leucine	g	9.04	2.26
L-Lysine*	g	0	0
L-Methionine	g	1.59	0.40
L-Phenylalanine	g	4.34	1.09
L-Proline	g	5.07	1.27
L-Serine	g	4.49	1.12
L-Threonine	g	4.85	1.21
L-Tryptophan	g	0.45	0.11
L-Tyrosine	g	5.07	1.27
L-Valine	g	6.36	1.59
L-Carnitine	mg	64	16
Taurine	mg	132	33

*No added lysine.



A powdered essential amino acid medical food for the dietary management of Urea Cycle Disorders.

Features

- Suitable from 1 year of age
- A blend of essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 2 level scoops (33 g) provide 5 g protein equivalent
- Available in Unflavored

Osmolality

33 g (2 scoops) + 135 ml (4.5 fl oz) water = 661 mOsm/kg

See page 98 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPSC Code
Unflavored	400 g can	50600-0518-20	B4157 & B4162

UCD trio (Unflavored) – Ingredients: Dried Glucose Syrup, Blend of Vegetable Oils (High Oleic Sunflower Oil, Soybean Oil), Sugar, L-Leucine, Calcium Phosphate, L-Lysine Acetate, L-Valine, L-Isoleucine, Sodium Citrate, Potassium Chloride, L-Threonine, Magnesium Hydrogen Phosphate, L-Tyrosine, Choline Bitartrate, L-Phenylalanine, L-Methionine, L-Histidine, High Docosahexaenoic Acid Single Cell Vegetable Oil, L-Cystine, Maltodextrin, L-Tryptophan, Citric Acid Esters of Mono and Diglycerides of Fatty Acids, Xanthan Gum, Magnesium Acetate, L-Ascorbic Acid, Zinc Gluconate, Sodium Caseinate (Milk), Inositol, Taurine, Sodium Ascorbate (Preservative), Ferrous Sulfate, L-Carnitine L-Tartrate, DL-Alpha Tocopherol Acetate, Potassium Phosphate, Manganese Gluconate, Mono and Diglycerides of Fatty Acids, Niacinamide, Copper Gluconate, Vitamin A Acetate, Calcium Pantothenate, Soy Lecithin, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, DL-Alpha Tocopherol (Preservative), Folic Acid, Chromium Chloride, Potassium Iodide, Sodium Molybdate, Sodium Selenite, Biotin, Phylloquinone, Cholecalciferol, Cyanocobalamin, Tocopherol (Preservative), Ascorbyl Palmitate (Preservative).

Contains: Soy and Milk.

UCD trio Nutrition Information

	Units	per 100 g	per 16.5 g (1 scoop)
Calories	kcal	393	65
Protein equivalent	g	15	2.5
Total Carbohydrate	g	51	8.4
Sugars	g	16.4	2.7
Total Fat	g	14.3	2.4
VITAMINS			
Vitamin A	µg RE	623	103
Vitamin D	µg	22.5	3.7
Vitamin E	mg α TE	11.7	1.9
Vitamin C	mg	81	13.4
Vitamin K	µg	75	12.4
Thiamin	mg	1.5	0.25
Riboflavin	mg	1.8	0.30
Niacin	mg	12.8	2.1
Vitamin B6	mg	2.1	0.35
Folic acid	µg	420	69.3
Vitamin B12	µg	3.6	0.59
Biotin	µg	90	14.9
Pantothenic acid	mg	6.0	0.99
Choline	mg	450	74.3
Inositol	mg	90	14.9
MINERALS			
Sodium	mg	426	70.3
Potassium	mg	783	129
Chloride	mg	690	114
Calcium	mg	1275	210
Phosphorus	mg	936	154
Magnesium	mg	225	37.1
Iron	mg	16.2	2.7
Copper	µg	1400	231
Zinc	mg	16.3	2.7
Manganese	mg	2.4	0.40
Iodine	µg	189	31.2
Molybdenum	µg	108	17.8
Selenium	µg	66	10.9
Chromium	µg	66	10.9
AMINO ACIDS			
L-Alanine	g	0	0
L-Arginine	g	0	0
L-Aspartic acid	g	0	0
L-Cystine	g	0.56	0.09
L-Glutamine	g	0	0
Glycine	g	0	0
L-Histidine	g	0.68	0.11
L-Isoleucine	g	2.71	0.45
L-Leucine	g	4.52	0.75
L-Lysine	g	2.48	0.41
L-Methionine	g	0.71	0.12
L-Phenylalanine	g	0.85	0.14
L-Proline	g	0	0
L-Serine	g	0	0
L-Threonine	g	1.55	0.26
L-Tryptophan	g	0.49	0.08
L-Tyrosine	g	1.47	0.24
L-Valine	g	2.71	0.45
L-Carnitine	mg	64	11
Taurine	mg	32	5.3



A tropical flavored powder containing essential amino acids, carbohydrate, vitamins, and minerals. For use in the dietary management of Urea Cycle Disorders and other disorders of protein metabolism where essential amino acids are required.



Features

- Suitable from 3 years of age
- 1 packet contains 5 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Tropical flavor

Osmolality

12.5 g (1 packet) + 100 ml (3.4 fl oz) water = 660 mOsm/kg

See page 99 for directions for use

Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
EAA Supplement	50 x 12.5 g packets	50600-0549-06	B4157 & B4162

EAA Supplement – Ingredients: Sugar, L-Leucine, L-Lysine Acetate, L-Valine, Magnesium Hydrogen Phosphate, Calcium Phosphate, L-Isoleucine, L-Tyrosine, L-Threonine, L-Phenylalanine, Malic Acid, Modified Corn Starch, Maltodextrin, L-Cystine, L-Histidine, L-Methionine, L-Tryptophan, Ferrous Gluconate, Xanthan Gum, L-Ascorbic Acid, Zinc Gluconate, Artificial Flavoring, Soy Lecithin, L-Carnitine L-Tartrate, Acesulfame Potassium, Beta Carotene (Color), Manganese Gluconate, Nicotinamide, Beet Red (Color), DL-Alpha Tocopherol Acetate, Copper Gluconate, Calcium Pantothenate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Chromium Chloride, Sodium Molybdate, Potassium Iodide, Biotin, Phylloquinone, Sodium Selenite, Cholecalciferol, Cyanocobalamin.

Contains: Soy.

EAA Supplement Nutrition Information

	Units	per 100 g	per 12.5 g (1 packet)
Calories	kcal	288	36
Protein equivalent	g	40	5.0
Total Carbohydrate	g	31.8	4.0
Sugars	g	24	3.0
Total Fat	g	0.1	0
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	2030	254
Vitamin D	µg	25.1	3.2
Vitamin E	mg α TE	31.2	3.9
Vitamin C	mg	218	27.2
Vitamin K	µg	203	25.4
Thiamin	mg	4.1	0.5
Riboflavin	mg	4.6	0.6
Niacin	mg	50.8	6.4
Vitamin B6	mg	5.8	0.8
Folic acid	µg	812	102
Vitamin B12	µg	9.4	1.2
Biotin	µg	377	47.2
Pantothenic acid	mg	16	2.0
MINERALS			
Sodium	mg	15	1.9
Potassium	mg	35	4.4
Chloride	mg	0	0
Calcium	mg	2326	291
Phosphorus	mg	2265	283
Magnesium	mg	837	105
Iron	mg	43.5	5.5
Copper	µg	4400	550
Zinc	mg	43.5	5.5
Manganese	mg	6.4	0.80
Iodine	µg	508	63.5
Molybdenum	µg	290	36.5
Selenium	µg	174	22
Chromium	µg	174	22
AMINO ACIDS			
L-Cystine	g	1.80	0.25
L-Histidine	g	1.80	0.25
L-Isoleucine	g	5.70	0.70
L-Leucine	g	9.80	1.25
L-Lysine	g	6.60	0.85
L-Methionine	g	1.80	0.25
L-Phenylalanine	g	3.40	0.40
L-Threonine	g	4.10	0.50
L-Tryptophan	g	1.30	0.15
L-Tyrosine	g	4.70	0.60
L-Valine	g	7.20	0.90
L-Carnitine	mg	130	17



A nutritionally complete powdered formula for individuals requiring a diet high in medium chain triglycerides (MCT) and low in long chain triglycerides (LCT) from 1 year of age.

Features

- Suitable from 1 year of age
- For use in the dietary management of long chain fatty acid oxidation disorders, fat malabsorption, and other disorders requiring a high MCT, low LCT formula
- Whey:Casein Ratio 90:10
- Can be used as oral supplement or tube feeding
- Neutral taste (Unflavored)

Osmolality

20 kcal/fl oz (0.68 kcal/ml) dilution:

5 g powder (1 scoop) + 30 ml (approx 1 fl oz) water = 180 mOsm/kg

See page 100 for directions for use

Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Lipistart	400 g can	50600-0502-05	B4150 & B4158

Lipistart – Ingredients: Dried Glucose Syrup, Blend of Vegetable Oils (Coconut Oil, Palm Kernel Oil, Soybean Oil), Whey Protein Concentrate (Milk), Sodium Caseinate (Milk), Calcium Phosphate, Potassium Citrate, Lecithin, High Arachidonic Acid Single Cell Vegetable Oil, Salt, Dipotassium Phosphate, Magnesium Hydrogen Phosphate, High Docosahexaenoic Acid Single Cell Vegetable Oil, L-Ascorbic Acid, L-Carnitine L-Tartrate, Maltodextrin, Choline Bitartrate, L-Tyrosine, Sodium Ascorbate (Preservative), Soy Lecithin, Inositol, Taurine, Ferrous Gluconate, Zinc Gluconate, Mono and Diglycerides of Fatty Acids, DL-Alpha Tocopherol Acetate, Nicotinamide, Manganese Gluconate, Calcium Pantothenate, Copper Gluconate, Pyridoxine Hydrochloride, Riboflavin, Thiamine Hydrochloride, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, Biotin, Sodium Selenite, Cholecalciferol, Ascorbyl Palmitate (Preservative), Tocopherol (Preservative), Cyanocobalamin.

Contains: Soy and Milk.

Lipistart Nutrition Information

	Units	per 100 g	per 100 ml (at 20 kcal/fl oz dilution)
Calories	kcal	450	68
Protein	g	13.7	2.1
Total Carbohydrate	g	55.3	8.3
Sugars	g	4.8	0.7
Total Fat	g	20.6	3.1
Saturated Fat	g	17.0	2.6
LCT	g	3.8	0.57
MCT	g	16.5	2.5
VITAMINS			
Vitamin A	µg RE	466	69.9
Vitamin D	µg	9.2	1.4
Vitamin E	mg α TE	11	1.7
Vitamin C	mg	135	20.3
Vitamin K	µg	31	4.7
Thiamin	mg	0.60	0.09
Riboflavin	mg	0.80	0.12
Niacin	mg	6.0	0.90
Vitamin B6	mg	0.70	0.11
Folic acid	µg	100	15
Vitamin B12	µg	1.5	0.23
Biotin	µg	19	2.9
Pantothenic acid	mg	2.9	0.44
Choline	mg	67	10.1
Inositol	mg	60	9.0
MINERALS			
Sodium	mg	258	38.7
Potassium	mg	503	75.5
Chloride	mg	299	44.9
Calcium	mg	491	73.7
Phosphorus	mg	359	53.9
Magnesium	mg	57	8.6
Iron	mg	5.0	0.75
Copper	µg	450	70
Zinc	mg	4.7	0.71
Manganese	mg	0.40	0.06
Iodine	µg	92	13.8
Molybdenum	µg	25	3.8
Selenium	µg	16	2.4
Chromium	µg	13	2.0
AMINO ACIDS			
L-Carnitine	mg	141	21
Taurine	mg	54	8.1



Medium Chain Triglyceride (MCT) based powder with a neutral taste.

Features

- Suitable from 3 years of age
- For the dietary management of disorders of long chain fatty acid oxidation, fat malabsorption and other disorders requiring a high MCT, low long chain triglyceride (LCT) diet
- MCTprocal can be added to a wide variety of foods and drinks*
- Neutral taste (Unflavored)

* not suitable for addition to fruit juice

See page 101 for directions for use



Ordering/Reimbursement Information

Packaging	Reimbursement Code	HCPCS Code
MCTprocal 30 x 16 g packets	50600-0502-36	B4155

MCTprocal Nutrition Information

	Units	per 100 g	per 16 g (1 packet)
Calories	kcal	703	112
Protein	g	12.2	2.0
Total Carbohydrate	g	20.6	3.3
Sugars	g	3.3	0.5
Total Fat	g	63.5	10
Saturated Fat	g	61.2	10
Medium Chain Triglycerides (MCT)	g	60.7	10
Long Chain Triglycerides (LCT)	g	0.90	0.14
MINERALS			
Sodium	mg	220	35
Potassium	mg	542	87
Calcium	mg	320	51
Phosphorus	mg	444	71

Ingredients: Medium Chain Triglycerides (from Coconut and Palm Kernel Oil), Glucose Syrup, Sodium Caseinate (milk), Dipotassium Phosphate, Calcium Phosphate.

Contains: Milk.



A hydrothermally processed high amylopectin cornstarch. For use in the dietary management of hepatic Glycogen Storage Diseases (GSD) where the use of a long acting cornstarch is indicated.

Features

- Suitable from 5 years of age
- Specialized patented heat and moisture process for slower release starch
- Glycosade can be taken as a drink or given as a bolus via feeding tube
- Available in Unflavored and Lemon flavor

Osmolality

Unflavored: 60 g (1 packet) + 120 ml (4 fl oz) water = 14 mOsm/kg

Lemon flavor: 60 g (1 packet) + 120 ml (4 fl oz) water = 19 mOsm/kg

See page 102 for directions for use

Ordering/Reimbursement Information

Packaging	Reimbursement Code	HCPCS Code
Unflavored 30 x 60 g packets	50600-0514-00	B4155
Lemon 30 x 60 g packets	50600-0247-67	B4155

Glycosade Nutrition Information

	Units	Unflavored		Flavored	
		per 100 g	per 60 g (1 packet)	per 100 g	per 60 g (1 packet)
Calories	kcal	352	212	352	212
Protein	g	0	0	0	0
Total Carbohydrate	g	88	53	88	53
Sugars	g	0	0	0	0
Total Fat	g	0	0	0	0
Saturated Fat	g	0	0	0	0

Unflavored – Ingredient: Cornstarch.

Lemon (artificially flavored) – Ingredients: Cornstarch, Natural and Artificial Flavor, Xanthan Gum, Citric Acid, Sucralose.



A powdered neutral tasting carbohydrate drink mix specifically formulated for use as emergency regimen in the dietary management of inborn errors of metabolism.

Features

• Age indication*:

- S.O.S20 is recommended from 2 years of age
- S.O.S25 is recommended from 10 years of age

*can vary depending on individual requirements of the patient

• Pre-measured amounts of carbohydrate

• Use 1 full packet and add sufficient water to achieve a final volume of 200 ml :

- S.O.S20 = 20% CHO solution
- S.O.S25 = 25% CHO solution

• Neutral taste (Unflavored)

Osmolality

42 g of S.O.S20 + water to a final volume of 200 ml = 280 mOsm/kg

52 g of S.O.S25 + water to a final volume of 200 ml = 390 mOsm/kg

See page 103 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPSC Code
S.O.S20	30 x 42 g packets	50600-0522-78	B4157 & B4162
S.O.S25	30 x 52 g packets	50600-0522-85	B4157 & B4162

S.O.S Nutrition Information

	Units	100 g	200 ml of S.O.S20 42 g packet reconstituted	200 ml of S.O.S25 52 g packet reconstituted
Calories	kcal	380	160	200
Protein	g	0	0	0
Total Carbohydrate	g	95	40	50
Sugars	g	9.0	3.8	4.7
Total Fat	g	0	0	0
MINERALS				
Sodium	mg	<20	<8.0	<10

Ingredient: Dried Glucose Syrup.

Introduction to Single Dose Amino Acids:

Vitaflo's Single Dose Amino Acids supply pre-measured doses of amino acids on a carbohydrate base. Suitable from 1 year of age.*

Product	Amino acid dose	Packet size
Arginine500	500 mg of L-Arginine	4 g
Arginine2000	2000 mg of L-Arginine	4 g
Citrulline200	200 mg of L-Citrulline	4 g
Citrulline1000	1000 mg of L-Citrulline	4 g
Creatine5000	5000 mg of Creatine	6 g
Cystine500	500 mg of L-Cystine	4 g
Glycine500	500 mg of L-Glycine	4 g
Isoleucine50	50 mg of L-Isoleucine	4 g
Isoleucine1000	1000 mg of L-Isoleucine	4 g
Leucine100	100 mg of L-Leucine	4 g
Methionine100	100 mg of L-Methionine	4 g
Phenylalanine50	50 mg of L-Phenylalanine	4 g
Tyrosine1000	1000 mg of L-Tyrosine	4 g
Valine50	50 mg of L-Valine	4 g
Valine1000	1000 mg of L-Valine	4 g

See page 105 for directions for use

*Creatine5000 is suitable from 3 years of age.

Arginine500

A powdered medical food required for the dietary management of inherited metabolic diseases such as Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of arginine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
Arginine500 30 x 4 g packets	50600-0546-92	B4155	

Nutrition Information	Units	100 g	4 g packet
Calories	kcal	370	15
Protein equivalent	g	10	0.4
L-Arginine	mg	12500	500
Total Carbohydrate	g	82.5	3.3
Total Fat	g	0	0

Ingredients: Dried Glucose Syrup, L-Arginine.

Citrulline200

A powdered medical food required for the dietary management of inherited metabolic diseases such as Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of citrulline unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
Citrulline200 30 x 4 g packets	50600-0502-81	B4155	

Nutrition Information	Units	100 g	4 g packet
Calories	kcal	380	15
Protein equivalent	g	5.0	0.2
L-Citrulline	mg	5000	200
Total Carbohydrate	g	90	3.6
Total Fat	g	0	0

Ingredients: Maltodextrin, L-Citrulline.

Arginine2000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of arginine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
Arginine2000 30 x 4 g packets	50600-0502-67	B4155	

Nutrition Information	Units	100 g	4 g packet
Calories	kcal	360	14
Protein equivalent	g	42.5	1.7
L-Arginine	mg	50000	2000
Total Carbohydrate	g	47.5	1.9
Total Fat	g	0	0

Ingredients: L-Arginine, Maltodextrin.

Citrulline1000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of citrulline unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
Citrulline1000 30 x 4 g packets	50600-0550-95	B4155	

Nutrition Information	Units	100 g	4 g packet
Calories	kcal	370	15
Protein equivalent	g	20	0.8
L-Citrulline	mg	25000	1000
Total Carbohydrate	g	72.5	2.9
Total Fat	g	0	0

Ingredients: Dried Glucose Syrup, L-Citrulline.

Cystine500

A powdered medical food required for the dietary management of inherited metabolic diseases such as Homocystinuria, to be used under strict medical supervision to provide the specific amounts of cystine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
Cystine500	30 x 4 g packets	50600-0547-77	B4155
Nutrition Information			
	Units	100 g	4 g packet
Calories	kcal	370	15
Protein equivalent	g	10	0.4
L-Cystine	mg	12500	500
Total Carbohydrate	g	82.5	3.3
Total Fat	g	0	0

Ingredients: Dried Glucose Syrup, L-Cystine, Xanthan Gum.

Glycine500

A powdered medical food required for the dietary management of inherited metabolic diseases such as Isovaleric Acidemia, to be used under strict medical supervision to provide the specific amounts of glycine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
Glycine500	30 x 4 g packets	50600-0544-56	B4155
Nutrition Information			
	Units	100 g	4 g packet
Calories	kcal	370	15
Protein equivalent	g	10	0.4
Glycine	mg	12500	500
Total Carbohydrate	g	82.5	3.3
Total Fat	g	0	0

Ingredients: Maltodextrin, Glycine.

Creatine5000

A powdered medical food required for the dietary management of inherited metabolic diseases such as GAMT deficiency and other disorders of creatine synthesis, to be used under strict medical supervision to provide specific amounts of creatine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
Creatine5000	30 x 6 g packets	50600-0503-04	B4155
Nutrition Information			
	Units	100 g	6 g packet
Calories	kcal	293	18
Protein equivalent	g	70	4.2
Creatine	mg	83333	5000
Total Carbohydrate	g	3.3	0.2
Total Fat	g	0	0

Ingredients: Creatine Monohydrate, Maltodextrin, Xanthan Gum.

Isoleucine50

A powdered medical food required for the dietary management of inherited metabolic diseases such as Maple Syrup Urine Disease, to be used under strict medical supervision to provide the specific amounts of isoleucine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
Isoleucine50	30 x 4 g packets	50600-0543-02	B4155
Nutrition Information			
	Units	100 g	4 g packet
Calories	kcal	384	15
Protein equivalent	g	1.0	0.04
L-Isoleucine	mg	1250	50
Total Carbohydrate	g	95	3.8
Total Fat	g	0	0

Ingredients: Dried Glucose Syrup, L-Isoleucine.

Isoleucine1000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Maple Syrup Urine Disease, to be used under strict medical supervision to provide the specific amounts of isoleucine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information			
Packaging		Reimbursement Code	HCPCS Code
Isoleucine1000	30 x 4 g packets	50600-0551-18	B4155
Nutrition Information			
	Units	100 g	4 g packet
Calories	kcal	370	15
Protein equivalent	g	20	0.8
L-Isoleucine	mg	25000	1000
Total Carbohydrate	g	72.5	2.9
Total Fat	g	0	0

Ingredients: Dried Glucose Syrup, L-Isoleucine.

Methionine100

A powdered medical food required for the dietary management of inherited metabolic diseases such as Cobalamin Disorders, to be used under strict medical supervision to provide the specific amounts of methionine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information				
Packaging		Reimbursement Code	HCPCS Code	
Methionine100	30 x 4 g packets	50600-0554-40	B4155	
Nutrition Information		Units	100 g	4 g packet
Calories		kcal	378	15
Protein equivalent		g	2.0	0.08
L-Methionine		mg	2500	100
Total Carbohydrate		g	92.5	3.7
Total Fat		g	0	0

Ingredients: Dried Glucose Syrup, L-Methionine.

Leucine100

A powdered medical food required for the dietary management of inherited metabolic diseases such as branched chain amino acid metabolism and Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of leucine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information				
	Packaging	Reimbursement Code	HCPCS Code	
Leucine100	30 x 4 g packets	50600-0549-20	B4155	
Nutrition Information		Units	100 g	4 g packet
Calories		kcal	378	15
Protein equivalent		g	2.0	0.08
L-Leucine		mg	2500	100
Total Carbohydrate		g	92.5	3.7
Total Fat		g	0	0

Ingredients: Dried Glucose Syrup, L-Leucine.

Phenylalanine50

A powdered medical food required for the dietary management of inherited metabolic diseases such as Tyrosinemia, to be used under strict medical supervision to provide the specific amounts of phenylalanine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information				
	Packaging	Reimbursement Code	HCPCS Code	
Phenylalanine50	30 x 4 g packets	50600-0549-44	B4155	
Nutrition Information		Units	100 g	4 g packet
Calories		kcal	384	15
Protein equivalent		g	1.0	0.04
L-Phenylalanine		mg	1250	50
Total Carbohydrate		g	95	3.8
Total Fat		g	0	0

Ingredients: Dried Glucose Syrup, L-Phenylalanine.

Tyrosine1000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Phenylketonuria, to be used under strict medical supervision to provide the specific amounts of tyrosine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information				
	Packaging	Reimbursement Code	HCPCS Code	
Tyrosine1000	30 x 4 g packets	50600-0547-91	B4155	
Nutrition Information		Units	100 g	4 g packet
Calories		kcal	370	15
Protein equivalent		g	20	0.8
L-Tyrosine		mg	25000	1000
Total Carbohydrate		g	72.5	2.9
Total Fat		g	0	0

Ingredients: Dried Glucose Syrup, L-Tyrosine, Xanthan Gum.

Valine1000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Maple Syrup Urine Disease, to be used under strict medical supervision to provide the specific amounts of valine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information				
	Packaging	Reimbursement Code	HCPCS Code	
Valine1000	30 x 4 g packets	50600-0551-32	B4155	
Nutrition Information		Units	100 g	4 g packet
Calories		kcal	370	15
Protein equivalent		g	20	0.8
L-Valine		mg	25000	1000
Total Carbohydrate		g	72.5	2.9
Total Fat		g	0	0

Ingredients: Dried Glucose Syrup, L-Valine.

Valine50

A powdered medical food required for the dietary management of inherited metabolic diseases such as Maple Syrup Urine Disease, to be used under strict medical supervision to provide the specific amounts of valine unable to be achieved by dietary modification alone.

Ordering/Reimbursement Information				
	Packaging	Reimbursement Code	HCPCS Code	
Valine50	30 x 4 g packets	50600-0543-33	B4155	
Nutrition Information		Units	100 g	4 g packet
Calories		kcal	384	15
Protein equivalent		g	1.0	0.04
L-Valine		mg	1250	50
Total Carbohydrate		g	95	3.8
Total Fat		g	0	0

Ingredients: Dried Glucose Syrup, L-Valine.

PEDIATRIC KIDNEY DISEASE



A powdered formula with low levels of protein, calcium, chloride, potassium, phosphorus and vitamin A, for the dietary management of pediatric kidney disease.

Features

- Suitable from 1 year of age
- A blend of whey protein, carbohydrate, fat (including docosahexaenoic acid – DHA and arachidonic acid – ARA), vitamins, minerals, and low levels of renal specific nutrients
- Can be concentrated to provide up to 2 kcal/ml
- Suitable for oral and tube feeding use
- Neutral taste (Unflavored) to allow for mixing with other formulas and supplements

Osmolality

30 kcal/fl oz (1 kcal/ml) dilution:

7 g powder (1 scoop) + 30 ml (1 fl oz) water = 230 mOsm/kg

Potential renal solute load = 125 mOsm/L

See page 107 for directions for use



Ordering/Reimbursement Information

	Packaging	Reimbursement Code	HCPCS Code
Powder	400 g can	50600-0546-23	B4154

Ingredients: Dried corn syrup, Vegetable oil (high oleic sunflower, coconut, canola, sunflower), Whey protein concentrate (milk), Mono- and diglycerides, Magnesium gluconate, M. alpina oil*, Sodium citrate, Choline bitartrate, Maltodextrin, C. cohnii oil**, L-tyrosine, Sodium caseinate, L-phenylalanine, L-valine, Calcium phosphate, Dipotassium phosphate, Sodium ascorbate, L-isoleucine, Calcium chloride, L-histidine, L-threonine, L-cystine, Taurine, L-leucine, L-tryptophan, Potassium chloride, Inositol, L-carnitine L-tartrate, Zinc gluconate, Calcium citrate, Sodium selenite, Ferrous sulfate, Potassium iodide, Tocopherols (preservative), Vitamin D3, Ascorbyl palmitate (preservative), Niacinamide, Calcium pantothenate, Copper gluconate, Biotin, L-methionine, Vitamin A acetate, Chromium chloride, Folic acid, Pyridoxine hydrochloride, Vitamin B12, Vitamin K1, Manganese gluconate, Riboflavin, Thiamine hydrochloride, Citric acid, Sodium molybdate.

Contains: Milk.

* A source of arachidonic acid (ARA)

** A source of docosahexaenoic acid (DHA)

Renastart Nutrition Information

	Units	per 100 g	per 100 ml (at 30 kcal/fl oz or 1 kcal/ml dilution)
Calories	kcal	494	100
Protein	g	7.5	1.5
Carbohydrate	g	62	12
Sugars	g	6.5	1.3
Total Fat	g	24	4.8
Saturated Fat	g	6.0	1.2
Linoleic Acid	mg	3700	740
Arachidonic Acid (ARA)	mg	200	40
Docosahexaenoic Acid (DHA)	mg	115	23
VITAMINS			
Vitamin A	µg RE	110	22
Vitamin D	µg	9.8	2.0
Vitamin E	mg α TE	4.8	1.0
Vitamin C	mg	65	13
Vitamin K	µg	26	5.2
Thiamin	mg	0.32	0.06
Riboflavin	mg	0.44	0.09
Niacin	mg	3.6	0.72
Vitamin B6	mg	0.50	0.10
Folic Acid	µg	70	14
Vitamin B12	µg	0.88	0.18
Pantothenic Acid	mg	2.2	0.44
Biotin	µg	19	3.8
Choline	mg	140	28
Inositol	mg	26	5.2
MINERALS			
Sodium	mg	210	42
Potassium	mg	95	19
Chloride	mg	80	16
Calcium	mg	100	20
Phosphorus	mg	83	17
Magnesium	mg	35	7.0
Iron	mg	4.5	0.90
Copper	mg	0.34	0.07
Zinc	mg	3.9	0.78
Manganese	mg	0.07	0.01
Iodine	µg	85	17
Molybdenum	µg	7.1	1.4
Selenium	µg	17	3.4
Chromium	µg	8.4	1.7
AMINO ACIDS			
L-Carnitine	mg	18	3.6
Taurine	mg	44	8.8

KETOGENIC DIET



A ready-to-use liquid emulsion of medium chain triglycerides (MCT) for use in the ketogenic diet or in the dietary management of conditions requiring a source of MCT.

Features

- Suitable from 3 years of age
- 45 g MCT, 2 g LCT per bottle of 7.6 fl oz (225 ml)
- Can be incorporated into diet-appropriate recipes for cooking and baking
- Additional serving suggestions and recipes available upon request
- Available in Unflavored

Osmolality

50 mOsm/kg

See page 109 for directions for use



A powdered mixture of vitamins and minerals for use in the dietary management of restrictive therapeutic diets, such as the ketogenic diet and inborn errors of metabolism.

Features

- Suitable from 4 years of age
- Can be made into a low volume drink
- 0.7 g carbohydrate per packet
- Available in Orange flavor

Osmolality

1 packet (6 g) + 60 ml (2 fl oz) water = 275 mOsm/kg

See page 110 for directions for use



Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
betaquik	15 x 225 ml bottles	50600-0216-29	B4155

Nutrition Information		
	Units	per 225 ml (1 bottle)
Calories	kcal	420
Total Fat	g	47
Saturated Fat	g	45
Trans Fat	g	0
Medium Chain Triglycerides (MCT)	g	45
Long Chain Triglycerides (LCT)	g	2.0
Sodium	mg	115
Total Carbohydrate	g	0
Protein	g	0

Not a significant source of cholesterol, dietary fiber, total sugars, added sugars, vitamin D, calcium, iron, and potassium.

Ingredients: Water, Medium Chain Triglycerides (from Coconut and Palm Kernel Oil), Citric Acid Esters of Mono- and Diglycerides, Mono- and Diglycerides, Sodium Chloride, Tocopherols (Preservative), Sucralose.

Ordering/Reimbursement Information			
Packaging	Reimbursement Code	HCPCS Code	
FruitiVits	30 x 6 g packets	50600-0513-25	B4104

Nutrition Information			
	Units	per 100 g	per 6 g (1 packet)
Calories	kcal	46	3
Protein	g	0	0
Total Carbohydrate	g	11.6	0.7
Sugars	g	0.5	0.03
Total Fat	g	0	0
Saturated Fat	g	0	0
VITAMINS			
Vitamin A	µg RE	7407	444
Vitamin D	µg	222	13
Vitamin E	mg α TE	137	8.2
Vitamin C	mg	592	36
Vitamin K	µg	888	53
Thiamin	mg	17	1.0
Riboflavin	mg	20	1.2
Niacin	mg	222	13
Vitamin B6	mg	25	1.5
Folic Acid	µg	3555	213
Vitamin B12	µg	41	2.5
Biotin	µg	1659	100
Pantothenic acid	mg	69	4.1
Choline	mg	3704	222
MINERALS			
Sodium	mg	45	2.7
Potassium	mg	180	10.8
Chloride	mg	20	1.2
Calcium	mg	11911	715
Phosphorus	mg	7437	446
Magnesium	mg	2977	179
Iron	mg	148	8.9
Copper	mg	15	0.90
Zinc	mg	148	8.9
Manganese	mg	22	1.3
Iodine	µg	2504	150
Molybdenum	µg	1007	60
Selenium	µg	607	36
Chromium	µg	607	36

Ingredients: Calcium Phosphate, Magnesium Sulfate, Magnesium Phosphate, Choline Bitartrate, Natural and Artificial Flavor, Citric Acid, Xanthan Gum, Ascorbic Acid, Beta Carotene (Color), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Zinc Sulfate, Acesulfame Potassium, Nicotinamide, Biotin, Sucralose, Vitamin D3, Calcium Pantothenate, Vitamin A Acetate, Manganese Sulfate, Sodium Selenite, Vitamin B12, Copper Sulfate, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Chromium Chloride, Sodium Molybdate.

OTHER NUTRITIONALS



A low protein chocolate flavored bar for the dietary management of inborn errors of metabolism requiring a protein restricted diet.

Features

- From 1 year of age
- Low protein
- Chocolate flavor
- Can be used in a variety of ways; it can be melted and used to coat permitted cakes, cookies, cereal and fruit

See page 113 for more ideas.



Ordering/Reimbursement Information

Packaging	Reimbursement Code	HCPSC Code
Vitabite 7 x 25 g bars	n/a	n/a

Nutrition Information

	Units	per 100 g	per 25 g (1 bar)
Calories	kcal	547	137
Protein	g	0.22	0.06
Total Carbohydrate	g	61.4	15.4
Sugars	g	59.1	14.8
Total Fat	g	33.4	8.4
Saturated Fat	g	30.4	7.6
MINERALS			
Sodium	mg	<10	<2.5
Potassium	mg	<100	<25
Phosphorus	mg	<50	<12.5
AMINO ACIDS			
L-Isoleucine	mg	<8	<2
L-Leucine	mg	<16	<4
L-Phenylalanine	mg	<10	<2.5
L-Tyrosine	mg	<5	<1.3
L-Valine	mg	<15	<3.8

Ingredients: Lactose (Milk), Vegetable Oil (Fractionated Palm Kernel Oil), Sugar, Natural and Artificial Flavoring, Carob Flour, Soy Lecithin.

Contains: Milk and Soy.

May contain: Walnut, Pistachio and Hazelnuts.

METABOLIC PRODUCTS: DIRECTIONS FOR USE

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Each 12.5 g packet of PKU explore provides 5 g protein equivalent.

Each 25 g packet of PKU explore provides 10 g protein equivalent.

Important Notice

Must only be consumed by people with proven Phenylketonuria under strict medical supervision.

PKU explore5 is suitable from 6 months of age.

PKU explore10 is suitable from 1 year of age.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply phenylalanine, fluid, and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Not intended for use as a breast milk substitute.

Preparation Guidelines

The product should be prepared immediately prior to feeding and any remaining product must be discarded if not used within 1 hour. **IMPORTANT:** Water or permitted drinks should be taken after product consumption.

Storage

Store in a cool dry place.

Packets are designed for single use and should be used immediately once opened.

Pack Size

explore5 – 30 x 12.5 g (0.44 oz) packets

explore10 – 30 x 25 g (0.88 oz) packets

Preparation Guidelines

To prepare the recommended concentration as a spoonable consistency:

1 For PKU explore5, add 12.5 ml (approx. 1 Tbsp) of cold water into a small container with a lid.

For PKU explore10, add 25 ml (1.5–2 Tbsp) of cold water into a small container with a lid.

2 Empty the contents of the packet into the container.

3 Secure the lid and shake well for 10 seconds.

4 Leave to stand for 2 minutes, allowing a smooth semi-solid consistency to form. Consume with a spoon.

To prepare PKU explore10 with the recommended concentration as a low volume drink:

1 Add 80 ml (approx. 3 fl oz) of cold water into a small container with a lid.

2 Empty the contents of the packet into the container.

3 Secure the lid and shake well for 10 seconds.

4 Drink immediately.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight, and medical condition of the patient.

2 level scoops provide 10 g protein equivalent.

Important Notice

Must only be consumed by people with proven Phenylketonuria under strict medical supervision.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply the phenylalanine, fluid, and general nutrition requirements.

Suitable from 1 year of age.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Unopened: PKU trio should be stored in a cool dry place.

Once opened: Use within 1 month.

Any prepared feed should be refrigerated and used within 24 hours. Re-shake before use.

Pack Size

400 g (14.11 oz) can

Preparation Guidelines

Measure the required number of scoops and add the amount of water recommended by the clinician or dietitian.

To prepare 10 g PE:

Measure 2 level scoops into glass/mixing cup.



Add approx. 135 ml (4.5 fl oz) of cold water.



Mix well until all of the powder is dissolved.



Drink immediately.



gel™

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Each packet of gel provides 10 g protein equivalent.

Important Notice

Must only be consumed by people with a proven metabolic disorder under strict medical supervision.

Suitable from 1 year of age.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply the restricted amino acids, fluid, and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Preparation Guidelines

For best results the product should be freshly prepared and used immediately.

IMPORTANT: Water or permitted drinks should be taken after product consumption.

Storage

Store in a cool dry place. Gel packets are designed for single use. The product should be freshly prepared and consumed immediately.

However, if this is not possible, all prepared products must be tightly covered and consumed within 6 hours at room temperature or within 24 hours if refrigerated.

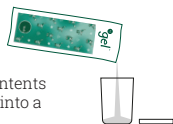
Pack Size

30 x 24 g (0.85 oz) packets

Preparation Guidelines

1 for gel/paste

Empty the contents of the packet into a cup with lid.



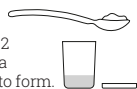
2 Add 30 ml (1 fl oz) of cold water or other permitted beverages.

Secure the lid and shake well until powder dissolves.



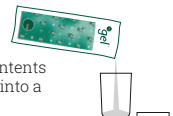
3

Leave to stand for 2 minutes allowing a smooth gel/paste to form. Consume from spoon.



1 for drink

Empty the contents of the packet into a cup with lid.



2 Add approximately 80 ml (approx. 3 fl oz) of cold water.

Secure the lid and shake well until powder dissolves.



3

Drink immediately.



sphere®

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Each packet of sphere15 provides 15 g protein equivalent.

Each packet of sphere20 provides 20 g protein equivalent.

Important Notice

Must only be consumed by people with proven Phenylketonuria under strict medical supervision.

Suitable from 3 years of age.

Diet must be supplemented with natural protein, water, and other nutrients in prescribed quantities to supply restricted amino acids, fluid, and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place.

The product should be freshly prepared and consumed immediately.

However, if this is not possible, all prepared products must be tightly covered and consumed within 4 hours at room temperature or within 24 hours if refrigerated.

Pack Size

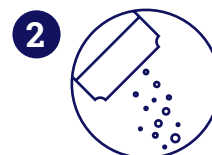
sphere15: 30 x 27 g (0.95 oz) packets

sphere20: 30 x 35 g (1.23 oz) packets

Preparation Guidelines



Measure 120 ml (4 fl oz) of water for sphere20 into a cup with a lid.



Add one packet of sphere.



Secure lid and shake well until the powder is fully dissolved.

For best results the product should be freshly prepared and used immediately.

IMPORTANT: Water or permitted drinks should be taken after product consumption.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Each packet of express15 provides 15 g protein equivalent.

Each packet of express20 provides 20 g protein equivalent.

Important Notice

Must only be consumed by people with a proven metabolic disorder under strict medical supervision.

Suitable from 3 years of age.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply the restricted amino acids, fluid and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place. express15 and express20 packets are designed for single use. The product should be freshly prepared and consumed immediately.

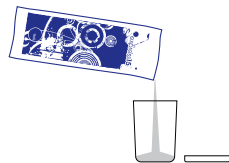
However, if this is not possible, all prepared products must be tightly covered and consumed within 6 hours at room temperature or within 24 hours if refrigerated.

Pack Size

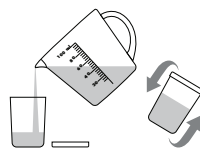
express15 – 30 x 25 g (0.88 oz) packets

express20 – 30 x 34 g (1.2 oz) packets

Preparation Guidelines



- 1 Empty the contents of the packet into a cup with lid.



- 2 Add approximately 80 ml (approx. 3 fl oz) of cold water or other permitted beverages. Secure the lid and shake well until powder dissolves.



- 3 Drink immediately.

For best results the product should be freshly prepared and used immediately.

IMPORTANT: Water or permitted drinks should be taken after product consumption.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Each cooler10 pouch provides 10 g protein equivalent.

Each cooler15 pouch provides 15 g protein equivalent.

Each cooler20 pouch provides 20 g protein equivalent.

Important Notice

Must only be consumed by people with a proven metabolic disorder under strict medical supervision.

Suitable from 3 years of age.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply the restricted amino acids, fluid and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place.

Once opened drink immediately or recap, refrigerate and use within 24 hours.

Pack Size

cooler10 – 30 x 87 ml (2.94 fl oz) pouches

cooler15 – 30 x 130 ml (4.39 fl oz) pouches

cooler20 – 30 x 174 ml (5.88 fl oz) pouches

Preparation Guidelines



- 1 Shake well



- 2 Open



- 3 Drink

Shake well before use.
Best served chilled.

IMPORTANT: Water or permitted drinks should be taken after product consumption.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight, and medical condition of the patient.

Each pouch of PKU air20 provides 20 g protein equivalent.

Important Notice

Must only be consumed by people with proven Phenylketonuria under strict medical supervision.

Suitable from 3 years of age.

Diet must be supplemented with natural protein, water, and other nutrients in prescribed quantities to supply phenylalanine, fluid, and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

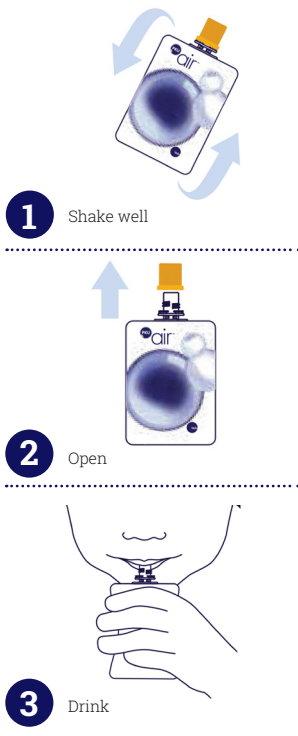
Store in a cool dry place.

Once opened drink immediately or recap, refrigerate and use within 24 hours.

Pack Size

30 x 174 ml (5.88 fl oz) pouches

Preparation Guidelines



Shake well before use.
Best served chilled.

IMPORTANT: Water or permitted drinks should be taken after product consumption.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

2 level scoops provide 5 g protein equivalent.

Important Notice

Must only be consumed by people with proven Urea Cycle Disorders and other disorders where the use of essential amino acids is indicated under strict medical supervision.

Diet must be supplemented with natural protein, water, and other nutrients in prescribed quantities to meet fluid and general nutrition requirements.

Suitable from 1 year of age.

Not for intravenous use.

For enteral use only.

Not for use as sole source of nutrition.

Storage

Unopened: UCD trio should be stored in a cool dry place.

Once opened: Use within 1 month.

Any prepared feed should be refrigerated and used within 24 hours. Re-shake before use.

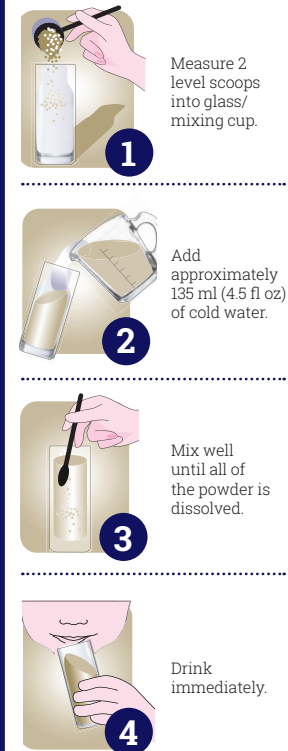
Pack Size

400 g (14.11 oz) can

Preparation Guidelines

Measure the required number of scoops and add the amount of water recommended by the clinician or dietitian.

To prepare 5 g PE:



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Each packet of EAA provides 5 g protein equivalent.

Important Notice

Must only be consumed by people with proven Urea Cycle Disorders or other disorders of protein metabolism under strict medical supervision.

Suitable from 3 years of age.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place.

Packets are designed for single use and should be used once opened.

Pack Size

50 x 12.5 g (0.44 oz) packets

Preparation Guidelines

1

Empty the contents of the packet into a cup with lid.



2

Add 100 ml (3.4 fl oz) of cold water or other permitted beverages.



3

Secure the lid and shake well until all of the powder is dissolved. Drink immediately.



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Important Notice

Must only be used under strict medical supervision.

Suitable from 1 year of age.

Not for intravenous use.

For enteral use only (orally or tube feeding).

Preparation Guidelines

Lipistart is typically mixed with water. Preparation instructions are given by the dietitian or clinician.

The standard dilution of 20 kcal/fl oz or 0.67 kcal/ml is made by adding 1 level scoop of Lipistart (5 g) to 30 ml of water (approx. 1 fluid oz). Use the scoop provided in the can or a gram scale for greatest accuracy.

Any prepared feed should be refrigerated and used within 24 hours. Re-shake before use.

Do not heat Lipistart in a microwave as uneven heating may occur and could cause a burn. Do not boil Lipistart.

Storage

Store in a cool dry place.

Once opened, Lipistart powder must be tightly sealed and consumed within 1 month.

Pack Size

400 g (14.11 oz) can

Preparation Guidelines



Wash your hands and clean surfaces, utensils, and feeding container.



Boil water and leave to cool for no more than 30 minutes to ensure it remains at a temperature of at least 158°F (70°C).



Measure out the required amount of water into the feed container. Do not use artificially softened water or repeatedly boiled water.



Using the scoop provided, add the prescribed number of scoops of Lipistart to the water, leveling each scoop off with the back of a clean dry knife. Return dry scoop to Lipistart can.



Seal food container and shake well until powder is dissolved. Test the temperature before feeding. The feed should feel warm or cool, but not hot.



Lipistart is now ready to use.

***Other dilutions and tube-feeding:** To be determined by the clinician or dietitian.



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body, weight and medical condition of the patient.

Important Notice

Must only be consumed under strict medical supervision.

Suitable from 3 years of age.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Pack Size

30 x 16 g (0.56 oz) packets

Storage

Unopened: Store in a cool dry place.

Opened: Packets are designed for single use and should be used once opened. Any unused powder in an open packet should be kept in an airtight container, or sealed with a clip and used within 24 hours.

Preparation Guidelines

Sprinkle MCTprocal onto the desired food or drink and stir until powder is dissolved.

MCTprocal can also be used in cooking and baking.

Serving suggestions for MCTprocal are available on request.

Not suitable for addition to fruit juice.

Serving Suggestions



Skim Milk — Add the required amount of MCTprocal to warm or cold skim or low fat milk (as directed). Stir until dissolved.



Water — Add the required amount of MCTprocal to previously boiled warm water or cold water. Stir until dissolved.



Hot Drinks

• **Tea** — Add the required amount of MCTprocal to a cup of tea and stir until dissolved.

• **Coffee** — Add the required amount of MCTprocal to coffee granules, add previously boiled hot water. Stir until dissolved.

• **Hot Chocolate** — Add the required amount of MCTprocal to hot skim or low fat milk (as directed) or previously boiled hot water. Stir until dissolved.



Low Fat Desserts or Puddings

— (e.g. custard, rice pudding) Make up the pudding as directed. Sprinkle the required amount of MCTprocal onto the pudding. Stir until dissolved.



Low Fat Yogurt — Add the required amount of MCTprocal to yogurt (as directed) and mix until smooth.



Oatmeal — Mix the required amount of MCTprocal into hot oatmeal before serving.



Low Fat Soup — Add the required amount of MCTprocal to soup and stir until dissolved.



Mashed Potato — Sprinkle the required amount of MCTprocal onto hot mashed potato and mix well.

glycosade®

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Important Notice

Must only be used in individuals with proven hepatic GSD where the use of long acting starch is indicated under strict medical supervision.

Suitable from 5 years of age.

Not for intravenous use. For enteral use only. Not for use as a sole source of nutrition. Glycosade may be given through a feeding tube. Not intended for use as a bolus to prevent possible tube blockage.

Storage

Store in a cool dry place. Packets are designed for single use and should be used immediately once opened.

Pack Size

30 x 60 g (2.1 oz) packets

Preparation Guidelines

Preparation to be determined by the clinician or dietitian.

For a recommended preparation as a drink:

1

Measure the required amount of liquid into a container with a lid.



2

Add the required amount of Glycosade to the container. Typically, a packet of Glycosade can be added to 120 ml (4 fl oz) of cold water or other suitable fluids.



3

Secure lid and shake until the powder is dissolved.



4

Glycosade is now ready to use.



DO NOT HEAT OR WARM GLYCOSADE AS THIS DESTROYS THE PROPERTIES OF THE STARCH.

The product should be freshly prepared and consumed immediately.



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Each packet of S.O.S20 prepared to a final volume of 200 ml gives a 20% carbohydrate solution.

Each packet of S.O.S25 prepared to a final volume of 200 ml gives a 25% carbohydrate solution.

Important Notice

Must only be given to patients with proven Inborn Errors of Metabolism under strict medical supervision.

S.O.S20 is recommended from 2 years of age and S.O.S.25 is recommended from 10 years of age (can vary depending on individual requirements of the patient).

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place. Packets are designed for single use and should be used immediately once opened.

Pack Size

S.O.S20 – 30 x 42 g (1.48 oz) packets

S.O.S25 – 30 x 52 g (1.83 oz) packets

Preparation Guidelines

Preparation to be determined by the clinician or dietitian.

For a recommended preparation as a drink:

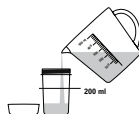
1



Empty 1 packet of S.O.S into a measuring cup with lid.

MAKE SURE TO USE FULL PACKET

2



Add the required amount of water to a final volume of 200 ml.

3



Secure lid and shake until the powder is dissolved.

4

S.O.S is now ready to use.

Any prepared feed should be refrigerated and used within 24 hours. Re-shake before use.

SINGLE DOSE AMINO ACIDS: DIRECTIONS FOR USE

A range of powdered Single Dose Amino Acids for use in the dietary management of inborn errors of protein metabolism.

Product	Amino acid dose	Packet size
Arginine500	500 mg of L-Arginine	4 g
Arginine2000	2000 mg of L-Arginine	4 g
Citrulline200	200 mg of L-Citrulline	4 g
Citrulline1000	1000 mg of L-Citrulline	4 g
Creatine5000	5000 mg of Creatine	6 g
Cystine500	500 mg of L-Cystine	4 g
Glycine500	500 mg of L-Glycine	4 g
Isoleucine50	50 mg of L-Isoleucine	4 g
Isoleucine1000	1000 mg of L-Isoleucin	4 g
Leucine100	100 mg of L-Leucine	4 g
Methionine100	100 mg of L-Methionine	4 g
Phenylalanine50	50 mg of L-Phenylalanine	4 g
Tyrosine1000	1000 mg of L-Tyrosine	4 g
Valine50	50 mg of L-Valine	4 g
Valine1000	1000 mg of L-Valine	4 g

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Storage

Store in a cool dry place. Packets are designed for single use and should be used once opened.

Pack Size

30 x 4 g (0.14 oz) packets
Creatine5000 – 30 x 6 g (0.21 oz) packets

Preparation Guidelines

To be determined by the clinician or dietitian.

Important Notice

Must only be used under strict medical supervision.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

PEDIATRIC KIDNEY DISEASE: DIRECTIONS FOR USE



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Important Notice

Must only be used under strict medical supervision.

Suitable from 1 year of age.

Not for intravenous use.

For enteral use only (orally or tube feeding).

Regular monitoring of nutritional status and electrolyte levels is required.

Not suitable for use as a sole source of nutrition.

Preparation Guidelines

Renastart is typically mixed with water. Preparation instructions are given by the dietitian or clinician.

The standard dilution of approximately 30 kcal/fl oz or 1 kcal/ml is made by adding 1 level scoop of Renastart (7 g) to 30 ml of water (1 fl oz). Use the scoop provided in the can or a gram scale for greatest accuracy.

Any prepared feed should be refrigerated and used within 24 hours. Re-shake before use.

Do not heat Renastart in a microwave as uneven heating may occur and could cause a burn. Do not boil Renastart.

Storage

Store in a cool dry place.

Once opened, Renastart powder must be tightly sealed and consumed within 4 weeks.

Pack Size

400 g (14.1 oz) can

Preparation Guidelines



1 Wash your hands and clean surfaces, utensils, and feeding container.



2 Boil water and leave to cool for no more than 30 minutes to ensure it remains at a temperature of at least 158°F (70°C).



3 Measure out the required amount of water into the feed container. Do not use artificially softened water or repeatedly boiled water.



4 Using the scoop provided, add the prescribed number of scoops of Renastart to the water, leveling off each scoop with the back of a clean dry knife. Return dry scoop to Renastart can.



5 Seal feed container and shake well until powder is dissolved. Test the temperature before feeding. The feed should feel warm or cool, but not hot.



6 Renastart is now ready to use.

***Other dilutions and tube-feeding:** To be determined by the clinician or dietitian.

KETOGENIC DIET: DIRECTIONS FOR USE



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Important Notice

Must only be used under strict medical supervision.

Suitable from 3 years of age.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Preparation Guidelines

Shake well before use.

Best served chilled.

Further serving suggestions and recipes for betaquik are available on request.

Storage

Store in a cool dry place.

Once opened keep refrigerated and use within 48 hours.

Pack Size

15 x 225 ml (7.6 fl oz) bottles



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Important Notice

Must only be used under strict medical supervision.

Suitable from 4 years of age.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place.

Packets are designed for single use and it is recommended that contents are used immediately once opened.

If a smaller dose size is required any unused powder in an open packet should be stored in an airtight container or re-sealed with a clip and used within 24 hours.

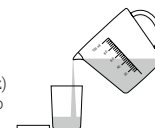
Pack Size

30 x 6 g (0.21 oz) packets

Preparation Guidelines

1

Add 60 ml (2 fl oz) of cold water into a cup with lid.



2

Empty contents of the packet into the cup. Secure the lid and shake well until powder is fully dissolved.



3

Drink immediately.



The product should be freshly prepared and consumed immediately. However, if this is not possible, all prepared products must be tightly covered and consumed within 4 hours at room temperature or within 24 hours if refrigerated.

Re-shake product before use.

**OTHER NUTRITIONALS:
DIRECTIONS FOR USE**



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Important Notice

Must only be given to patients with proven inborn errors of metabolism, liver, or renal disease under strict medical supervision.

Suitable from 1 year of age.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Preparation Guidelines

Vitabite is a versatile product that can be easily incorporated into the diet in a variety of ways; e.g. it can be melted and used to coat permitted cakes, cookies, cereal and fruit.

Storage

Store in a cool dry place.

Pack Size

7 x 25 g (0.88 oz) bars

Vitabite can be used in many ways to add variety, fun and energy to your diet as recommended by the clinician/dietitian.

Serving suggestions:

Melting Vitabite couldn't be easier –

Break up into a bowl, then either microwave or place over a pan of boiling water (carefully!) and stir until melted.

Vitabite shapes – Pour into different moulds, refrigerate for 1 hour and turn out when set.

Vitabite crispy cakes – Mix with permitted amount of cereal, spoon into cupcake baking cups and leave to cool.

Vitabite buttons – Using a teaspoon, drip small drops onto a nonstick tray and leave to set in the refrigerator.

Vitabite cookies – Coat or use as a filling for permitted cookies and cakes, leave in a cool place until set.

Vitabite fruits – Coat small pieces of fresh fruit and make a special dessert.

Vitabite Popsicle – Great for sunny days. Simply dip the permitted Popsicle into the melted Vitabite to coat and then keep in the freezer for a treat.

Vitabite can also be grated and used to decorate low protein desserts or cakes. For the best results refrigerate the Vitabite before grating.

WEIGHTS & HOUSEHOLD MEASUREMENTS

Product Name	Presentation	Displacement factor ml displaced by 1 gram powder	scoop weight 1 level scoop = approximate (g)	1 teaspoon approximate (g)	1 tablespoon approximate (g)	1/4 Cup approximate (g)	1/3 Cup approximate (g)	1/2 cup approximate (g)
PKU explore	Powder, single serve packet, 5 g protein equivalent or 10 g protein equivalent	0.63 ml/g	N/A	N/A	N/A	N/A	N/A	N/A
PKU trio	Powder, 400 g can	0.55 ml/g	16.5 g	3 g	9 g	36 g	48 g	72 g
gel range	Powder, single serve packet, 10 g protein equivalent	0.63 ml/g	N/A	N/A	N/A	N/A	N/A	N/A
sphere powder range	Powder, single serve packet, 15 g or 20 g protein equivalent	0.57 ml/g	N/A	N/A	N/A	N/A	N/A	N/A
express range	Powder, single serve packet, 15 g or 20 g protein equivalent	0.6 ml/g	N/A	N/A	N/A	N/A	N/A	N/A
cooler range	Liquid, single serve pouch, 10 g, 15 g and 20 g protein equivalent	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PKU air	Liquid, single serve pouch, 20 g protein equivalent	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lipistart	Powder, 400 g can	0.8 ml/g	5 g	2.3 g	6.9 g	27.6 g	36.8 g	55.2 g
MCTprocal	Powder, 16 g packet	0.8 ml/g	8 g	2 g	6 g	24 g	32 g	48 g

Note: All household measurements are for level measures, either taken directly from the can or if from a packet are lightly packed and are approximate. For accuracy a gram scale is always recommended.

Product Name	Presentation	Displacement factor ml displaced by 1 gram powder	Product yield approximate final volume (ml)	scoop weight 1 level scoop = approximate (g)	1 teaspoon approximate (g)	1/4 Cup approximate (g)	1/3 Cup approximate (g)	1/2 cup approximate (g)
betaquik	Liquid, single serve 7.6 fl oz (225 ml) bottle	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glycosade	Powder, 60 g packet	0.6 ml/g	1 packet (60 g) + 100 ml water yields 156 ml	5 g	2.3 g	6.8 g	36 g	54 g
S.O.S	Powder, 42 g and 52 g single serve packets	0.8 ml/g	200 ml per packet when mixed with water according to directions	N/A	N/A	N/A	N/A	N/A
Single Dose Amino Acids	Powder, single serve packets	0.8 ml/g	N/A	N/A	N/A	N/A	N/A	N/A
Vitabite	25 g chocolate flavored bar	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UCD trio	Powder, 400 g can	0.4 ml/g	N/A	16.5 g	3 g	9 g	48 g	72 g
Renastart	Powder, 400 g can	0.74 ml/g	1 can of Renastart yields 2 L (400 g/20=20; 20 x 100 ml = 2 L)	7 g	N/A	N/A	N/A	N/A

Note: All household measurements are for level measures, either taken directly from the can or if from a packet are lightly packed and are approximate. For accuracy a gram scale is always recommended.



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NOTE: Products included herein are foods intended for the dietary management of medical conditions as indicated in the table of contents. At the time of publication, every effort was made to confirm that all product information was accurate. It is, however, subject to change. The most current information can always be obtained by referring to the package label, or contacting Vitaflo. The contents of this product guide are for informational purposes only and are not intended to be a substitute for medical advice or clinical judgement. All products are for use under medical supervision.

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