



## DESCRIPTION

### **Powdered Leucine-, Isoleucine-, and Valine-free Medical Food**

A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals.

### **USE UNDER MEDICAL SUPERVISION**

## INDICATIONS

For use in the dietary management of Maple Syrup Urine Disease (MSUD) from 1 year of age.

## 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 24 g packet of MSUD gel provides 10 g of protein equivalent.

## PREPARATION GUIDELINES

MSUD gel can be taken as a semi-solid spoonable consistency or as a low volume drink.

### **For a semi-solid consistency (gel/paste)**

1. Empty the contents of the packet into a cup with lid.
2. Add 30 ml (1 fl oz) of cold water or other permitted beverage. Secure the lid and shake well until powder dissolves.
3. Leave to stand for 2 minutes allowing a smooth semi-solid consistency to form. Consume from spoon.

### **For drink**

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 beverage. 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.

## STORAGE

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

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

## PACK SIZE

30 x 24 g (0.84 oz) packets

## NET WT.

720 g (25.3 oz) (1.58 lb)

Available in Unflavored.

## IMPORTANT NOTICE

Must only be consumed by people with proven Maple Syrup Urine Disease (MSUD) under strict medical supervision.

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

Not for intravenous use. For enteral use only.  
Not for use as a sole source of nutrition.

## 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
<b>VITAMINS</b>			
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
<b>MINERALS</b>			
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
<b>AMINO ACIDS</b>			
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.

Manufactured in Germany for VitaFlo USA, LLC.

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## 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.

## 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



Innovation in Nutrition

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