

# MSUD LOPHLEX POWDER

## DESCRIPTION

MSUD Lophlex is an isoleucine, leucine and valine-free amino acid-based powdered protein substitute, containing a balanced mix of essential and non-essential amino acids, docosahexaenoic acid (DHA), vitamins, trace elements and some minerals.

Available in Neutral Flavour.

## INDICATIONS

For the dietary management of maple syrup urine disease (MSUD) in children aged 3 years onwards and adults, including pregnant women (in conjunction with standard folic acid supplementation).

## PREPARATION AND ADMINISTRATION

Water or diluted drinks should be offered or taken at the same time. To ensure tolerance the product may initially need to be introduced at a lower concentration. Recommended feed concentration: 28g powder (1 sachet) made up with 65ml water to give a final volume of approximately 80ml. The quantity and dilution of this product can be adapted to the tolerance and preferences of the individual under supervision of a clinician or dietitian.

1. Wash your hands and clean all utensils. 2. Measure the recommended amount of cold water into a container with a screw top lid. 3. Empty the contents of 1 sachet into the container. 4. Seal and shake well until the powder is dissolved. MSUD Lophlex is best prepared with chilled water and consumed immediately after preparation. It can also be taken as a more concentrated drink, additional water or diluted drinks must be consumed at the same time. Do not boil and do not use a microwave oven to heat. Do not freeze.

## ADMINISTRATION GUIDELINES

The dosage should be determined by a clinician or dietitian only and is dependent on the age, body weight and medical condition of the patient. The daily intake of protein substitute should be taken in divided doses throughout the day.

## GENERAL PRECAUTIONS

Must be used under strict medical supervision. Not suitable as a sole source of nutrition. Not suitable for children under 3 years of age. Not suitable for tube feeding.

This product must be supplemented with natural protein, fluid and other nutrients in medically prescribed quantities to supply the isoleucine, leucine, valine and general nutrition requirements of the patient. Please monitor micronutrient intake to ensure that individual's intakes are optimal. MSUD Lophlex contains only trace amounts of sodium and chloride.

## STORAGE

Store in a cool dry place.

## PACK SIZE

30 x 28g sachets.

## INGREDIENTS

L-glutamine, L-lysine acetate, L-proline, dried glucose syrup, L-tyrosine, L-arginine, glycine, L-serine, L-aspartic acid, L-Alanine, calcium hydrogen phosphate, L-threonine, L-cystine, L-phenylalanine, L-histidine, magnesium acetate, flavouring, L-tryptophan, choline bitartrate, L-methionine, oil from crypthocodium cohnii, stabiliser (E412), modified starch (E1450), potassium citrate, flavour enhancer (E330), calcium phosphate, taurine, sodium L-ascorbate, high oleic sunflower oil, Inositol, potassium phosphate monobasic, ferrous sulphate, zinc sulphate, L-carnitine, nicotinamide, DL-alpha tocopheryl acetate, artificial sweetener (sucralose), calcium D-pantothenate, copper sulphate, manganese sulphate, pyridoxine hydrochloride, thiamin hydrochloride, riboflavin, retinyl acetate, folic acid, potassium iodide, sodium molybdate, D-biotin, sodium selenite, chromium chloride, phytomenadione, cholecalciferol, cyanocobalamin.



## MSUD LOPHLEX POWDER

AVERAGE CONTENTS	UNIT	PER 100G	PER 28G SACHET
<b>Energy</b>	kcal	355	99
	kJ	1530	429
<b>Protein</b>	g	71.4	20
<b>Carbohydrate</b>	g	15	4.2
sugars	g	1.1	0.32
lactose	g	0	0
<b>Fat</b>	g	1.5	0.42
saturates	g	0.52	0.15
monounsaturates	g	0.35	0.10
polyunsaturates	g	0.59	0.16
Docosahexaenoic acid (DHA)	mg	540	150
<b>Dietary fibre</b>	g	0.83	0.23
<b>Minerals</b>			
Sodium	mg (mmol)	<60 (<2.61)	<16.8 (<0.73)
Potassium	mg (mmol)	358 (9.16)	100 (2.56)
Chloride	mg (mmol)	<50 (<1.41)	<14.0 (<0.39)
Calcium	mg (mmol)	1320 (32.9)	370 (9.2)
Phosphorus	mg (mmol)	1000 (32.3)	280 (9.04)
Magnesium	mg (mmol)	382 (15.7)	107 (4.4)
Iron	mg	18.9	5.3
Zinc	mg	13.9	3.9
Copper	mg	1.90	0.53
Manganese	mg	1.90	0.53
Molybdenum	µg	89.4	25
Selenium	µg	95.5	26.8
Chromium	µg	38	10.6
Iodine	µg	209	58.4
<b>Vitamins</b>			
Vitamin A	µg	1020	285
Vitamin D	µg	28.6	8
Vitamin E	mg (α-TE)	15.4 (11.4)	4.31 (3.20)
Vitamin K	µg	88.9	24.9
Thiamin (B <sub>1</sub> )	mg	1.52	0.42
Riboflavin (B <sub>2</sub> )	mg	1.8	0.50
Niacin (B <sub>3</sub> )	mg (mg NE)	25.4 (48.6)	7.10 (13.6)
Pantothenic acid (B <sub>5</sub> )	mg	7.13	2.0
Vitamin B <sub>6</sub>	mg	2.06	0.58
Folic acid	µg	359	100
Vitamin B <sub>12</sub>	µg	6.43	1.8
Biotin	µg	191	53.4
Vitamin C	mg	131	36.6
<b>Others</b>			
Choline	mg	545	153
Inositol	mg	145	40.6
<b>Water</b>			
Osmolality	mOsmol/kg H <sub>2</sub> O	2107	2107
<b>Amino Acid Profile</b>			
L-Alanine	g	4.2	1.18
L-Arginine	g	5.71	1.6
L-Aspartic Acid / L-Asparagine	g	4.43	1.24
L-Cyst(e)ine	g	3.64	1.02
Glycine	g	5.71	1.6
L-Glutamic acid / L-Glutamine	g	10.6	2.96
L-Histidine	g	3	0.84
L-Isoleucine	g	0	0
L-Leucine	g	0	0
L-Lysine	g	5.36	1.5
L-Methionine	g	1.36	0.38
L-Phenylalanine	g	3.57	1
L-Proline	g	7.14	2
L-Serine	g	5	1.4
L-Threonine	g	3.93	1.1
L-Tryptophan	g	1.64	0.46
L-Tyrosine	g	6	1.68
L-Valine	g	0	0

A food for special medical purposes; must be used under strict medical supervision.

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