

MSUD cooler[®] + Ω 3 DHA

Description

A food for special medical purposes.

MSUD cooler is a ready-to-drink, leucine, isoleucine and valine free protein substitute, containing essential and non-essential amino acids, carbohydrate, vitamins, minerals, trace elements and the omega-3 long chain polyunsaturated fatty acids (LCPs); docosahexaenoic acid (DHA) and eicosapentaenoic (EPA).

With sugar and sweeteners. Available in a choice of flavours.

Indications

MSUD cooler is for use in the dietary management of Maple Syrup Urine Disease (MSUD) from 3 years onwards.

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.

MSUD cooler10 (87ml) = 10g PE
MSUD cooler15 (130ml) = 15g PE*
MSUD cooler20 (174ml) = 20g PE

The products can be used individually or interchanged to meet individual protein requirements.

1. The daily protein substitute requirement is given as MSUD cooler
2. Additional protein is provided from exchanges of natural protein, to provide restricted amino acids in controlled amounts, which is essential for growth and development
3. Foods high in carbohydrate and fat, but low in protein, should be provided to supply the remainder of the energy

Preparation Guidelines



Shake well



Open



Drink

Water or permitted drinks should be taken after MSUD cooler.

IMPORTANT NOTICE

Must only be given to patients with proven MSUD under strict medical supervision.

Suitable from 3 years onwards

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

Not for use as a sole source of nutrition.

For enteral use only.

Nutritional Information

		Per 100ml	Per MSUD Cooler10 87ml	Per MSUD Cooler15 130ml	Per MSUD Cooler20 174ml
Energy	kJ	302	261	393	526
	kcal	71	62	92	124
Fat	g	0.4	0.3	0.5	0.7
of which saturates	g	0.10	0.09	0.13	0.17
Carbohydrate	g	5.4	4.7	7.0	9.4
of which sugars	g	4.5	3.9	5.9	7.8
Protein equivalent	g	11.5	10	15	20
L-Isoleucine	g	0	0	0	0
L-Leucine	g	0	0	0	0
L-Valine	g	0	0	0	0
Salt	g	0.25	0.21	0.32	0.43
Vitamins and minerals					
Vitamin A (RE)	µg	160	139	208	278
Vitamin D	µg	5.8	5.0	7.5	10
Vitamin E (αTE)	mg	3.0	2.6	3.9	5.2
Vitamin K	µg	19	17	25	34
Vitamin C	mg	21.0	18	27	36
Thiamin	mg	0.4	0.3	0.5	0.7
Riboflavin	mg	0.44	0.38	0.57	0.77
Vitamin B6	mg	0.5	0.4	0.7	0.9
Niacin	mg (mg NE)	4.8 (12.3)	4.2 (10.7)	6.2 (16)	8.4 (21.4)
Folic acid	µg	77	67	100	134
Vitamin B12	µg	0.9	0.8	1.2	1.6
Pantothenic Acid	mg	1.5	1.3	2.0	2.6
Biotin	µg	36	31	47	63

Nutritional Information

		Per 100ml	Per MSUD Cooler10 87ml	Per MSUD Cooler15 130ml	Per MSUD Cooler20 174ml
Sodium	mg	98	85	127	171
	mmol	4.2	3.9	5.5	7.3
Chloride	mg	140	122	182	244
	mmol	3.9	3.4	5.1	6.8
Potassium	mg	181	157	235	315
	mmol	4.5	3.9	5.9	7.9
Calcium	mg	230	200	299	400
	mmol	5.8	5.0	7.5	10
Phosphorus	mg	205	178	267	357
	mmol	6.6	5.7	8.4	11.4
Magnesium	mg	72	63	94	125
	mmol	3.0	2.6	3.9	5.2
Iron	mg	4.2	3.7	5.4	7.3
Zinc	mg	4.2	3.7	5.4	7.3
Copper	mg	0.42	0.37	0.55	0.73
Iodine	µg	49	43	63	84
Selenium	µg	17	15	22	29
Manganese	mg	0.6	0.5	0.8	1.0
Chromium	µg	17	15	22	29
Molybdenum	µg	28	24	36	48
Others					
Choline	mg	115	100	150	201
DHA	mg	77	67	100	134
EPA	mg	18	16	23	31

Nutritional Information

	Per 100ml	Per MSUD Cooler10 87ml	Per MSUD Cooler15 130ml	Per MSUD Cooler20 174ml
Amino Acids				
L-Alanine	g	1.57	1.37	2.04
L-Arginine	g	1.49	1.30	1.94
L-Aspartic Acid	g	1.88	1.64	2.44
L-Cystine	g	0.44	0.38	0.57
L-Glutamine	g	0.00	0.00	0.00
Glycine	g	1.25	1.09	1.63
L-Histidine	g	0.53	0.46	0.69
L-Isoleucine	g	0.00	0.00	0.00
L-Leucine	g	0.00	0.00	0.00
L-Lysine	g	1.12	0.97	1.46
L-Methionine	g	0.32	0.28	0.42
L-Phenylalanine	g	0.84	0.73	1.09
L-Proline	g	1.32	1.15	1.72
L-Serine	g	0.89	0.77	1.16
L-Threonine	g	0.80	0.70	1.04
L-Tryptophan	g	0.45	0.39	0.59
L-Tyrosine	g	0.89	0.77	1.16
L-Valine	g	0.00	0.00	0.00
L-Carnitine	mg	13	11	16
Taurine	mg	25	22	33
Osmolality: 1900mOsm/kg				

Allergen Declaration

Contains fish (tuna oil)
Contains soya (soya lecithin)
Contains milk (milk protein)

Storage

Store in a cool dry place.
Once opened drink immediately or recap, refrigerate and use within 24 hours.

Pack Size/Weight

 cooler10®
30 x 87ml e pouches = 2.61L

 cooler15®
30 x 130ml e pouches = 3.9L

 cooler20®
30 x 174ml e pouches = 5.22L



Flavours

Red and orange (MSUD cooler15 only)