

#### Description

#### A food for special medical purposes.

MSUD gel<sup>™</sup> is an unflavoured powdered leucine, isoleucine and valine free protein substitute containing essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements

#### Indications

MSUD gel is for use in the dietary management of Maple Syrup Urine Disease (MSUD) from 6 months to 10 years 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.

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

- 1. The daily protein substitute requirement is given as MSUD gel.
- 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**

MSUD gel can be either taken as a gel or a low volume drink.

## For gel:



Empty the contents of the sachet into the beaker.



Add approximately 30ml of cold water. Secure the lid and shake well for 10 seconds.



Leave to stand for 2 minutes, allowing a smooth gel to form. Consume with a spoon.

#### For a low volume drink:



Empty the contents of the sachet into the beaker.



Add approximately 80ml (half way up the beaker) of cold water. Secure the lid and shake well for 10 seconds



Drink immediately.

Water or permitted drinks should be taken after MSUD gel.

### IMPORTANT NOTICE

Must only be given to people with proven Maple Syrup Urine Disease under strict medical supervision.

Suitable from 6 months to 10 years of age.

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

Not for use as a sole source of nutrition.

For enteral use only.

#### **Nutritional Information**

		Per 100g	Per MSUD ge 24g sache			Per 100g	Per MSUD gel 24g sachet
Energy	kJ	1440	346	Sodium	mg	379	91
	kcal	339	81		mmol	16.3	3.9
Fat	g	0.05	0.02	Chloride	mg	583	140
of which satur	ates g	0.0	0.0		mmol	16.3	3.9
Carbohydrate	g	42.9	10.3	Potassium	mg	938	225
of which suga	rs g	27.1	6.5		mmol	23.5	5.6
Protein equivale	ent g	41.7	10	Calcium	mg	1083	260
L-Isoleucine	g	0	0		mmol	27.1	6.5
L-Leucine	g	0	0	Phosphorus	mg	825	198
L-Valine	g	0	0		mmol	26.4	6.3
Salt	g	0.95	0.23	Magnesium	mg	167	40
Vitamins and				mmol	6.8	1.6	
Vitamin A (RE)	μд	600	144	Iron	mg	14	3.4
Vitamin D	μд	14.6	3.5	Zinc	mg	11	2.6
Vitamin E (αTE)	) mg	9.0	2.2	Copper	mg	0.80	0.19
Vitamin K	μд	41	9.8	lodine	μд	138	33.1
Vitamin C	mg	63	15	Selenium	μд	35	8.4
Thiamin	mg	1.0	0.24	Manganese	mg	1.7	0.41
Riboflavin	mg	1.2	0.29	Chromium	μд	71	17
Vitamin B6	mg	1.1	0.26	Molybdenum	μд	50	12
Niacin mg (mg NE)		14 (38.2)	3.4 (9.2)	Others			
Folic acid	μд	208.0	50	Choline	mg	279	67
Vitamin B12	μд	2.0	0.48				
Pantothenic Acid mg		5.0	1.2				
Biotin	ПО	25	6.0				

Nutritional information											
		Per MSUD gel 24g sachet			Per 100g	Per MSUD gel 24g sachet					
Amino acids			L-Methionine	g	1.05	0.25					
L-Alanine g	5.11	1.23	L-Phenylalanine	g	2.73	0.66					
L-Arginine g	4.85	1.16	L-Proline	g	4.29	1.03					
L-Aspartic Acid g	6.13	1.47	L-Serine	g	2.90	0.70					
L-Cystine g	1.45	0.35	L-Threonine	g	2.61	0.63					
L-Glutamine g	5.51	1.32	L-Tryptophan	g	1.45	0.35					
Glycine g	4.06	0.97	L-Tyrosine	g	2.90	0.70					
L-Histidine g	1.74	0.42	L-Carnitine	mg	46	11					
L-Lysine g	3.65	0.88	Taurine	mg	92	22					

# Osmolality:

24g + 30ml = 3000m0sm/kg

24g + 80ml = 1540m0sm/kg

# Pack Size/Weight

30 x 24g ← sachets = 720g

# Flavours

Unflavoured.

## Storage

Store in a cool dry place.
Sachets designed for single use and should be used immediately once opened.
Any unused powder in an open sachet should be kept in an airtight container or sealed with a clipper and used within 24 hours.



