

MONOGEN

GMS Listed ✓ ACBS ✓

Description

Monogen is a nutritionally complete, low fat, powdered feed containing whey protein, carbohydrate, fat (low in long chain triglycerides (LCTs) and high in medium chain triglycerides (MCTs), vitamins, minerals and trace elements.

Indications

Monogen can be recommended for use in infants as a sole source of nutrition or as a supplementary feed for children for the dietary management of the following conditions:

1. Hyperlipoproteinaemia type 1.
2. Long chain fatty acid oxidation defects (LCFAODs).
3. Intestinal lymphangectasia.
4. Chylothorax (some patients may require lower long chain fat).
5. Intractable malabsorption with steatorrhoea.

The level of essential fatty acids in Monogen is designed to meet minimum requirements due to the varying severity of presentation of LCFAODs where there can be minimal tolerance of LCT. Patients should have their essential fatty acid status monitored and supplemented if tolerated.

Preparation and administration

The recommended feed concentration is 17.5% w/v (17.5g Monogen made up to 100mls with water). Each level scoop (5g) of Monogen requires 25mls to yield the recommended feed concentration of 17.5%. For preparation of infant formula, please see the guidelines at the beginning of this section. For preparation for older children, please follow guidelines below.

1. Weigh out Monogen.
2. Add a small amount of the water prescribed.
3. Stir with a fork until a smooth paste is formed.
4. Continue stirring whilst adding the rest of the prescribed amount of water.

Once reconstituted, store in a refrigerator and use within 24 hours.

Storage

Store in a cool dry place. Always replace the container lid after use. Once opened, use within one month.

Pack size

400g can.

Ingredients

Dried Glucose Syrup, Whey Protein Concentrate (Cows' Milk), Fractionated Coconut Oil, Calcium Phosphate Dibasic, Tripotassium Citrate, Walnut Oil, Emulsifier (E472(c)), Trisodium Citrate, L-Threonine, Magnesium Chloride, Sodium Chloride, L-Phenylalanine, Choline Bitartrate, L-Lysine Acetate, L-Tyrosine, L-Glutamine, L-Isoleucine, L-Valine, L-Leucine, M-Inositol, L-Ascorbic Acid, L-Histidine, L-Methionine, L-Cystine, Taurine, Ferrous Sulphate, Zinc Sulphate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Nicotinamide, Calcium-D-Pantothenate, Manganese Sulphate, Copper Sulphate, Riboflavin, Vitamin A Acetate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Potassium Iodide, Chromium Chloride, Folic Acid, Sodium Selenite, Vitamin K₁, D-Biotin, Vitamin D₃, Cyanocobalamin.

* At recommended dilution 17.5% (5g added to 25ml water).



MONOGEN			
Average Contents	Unit	per 100g	per 100ml*
Energy	kcal	420	73.5
	kJ	1769	310
Protein (nitrogen)	g (g)	12.5 (2)	2.2 (0.35)
Carbohydrate	g	68	12
sugars	g	6.7	1.2
lactose		0.7	0.12
Fat	g	11	1.9
saturates	g	9.2	1.6
monounsaturates	g	0.6	0.11
polyunsaturates	g	0.6	0.11
% LCT	%	20	–
% MCT	%	80	–
n6:n3	ratio	6.2:1	–
% energy from linoleic acid	%	1.1	–
% energy from α -linolenic acid	%	0.17	–
Dietary fibre	g	–	–
Minerals			
sodium	mg (mmol)	200 (8.7)	35 (1.5)
potassium	mg (mmol)	360 (9.2)	63 (1.6)
chloride	mg (mmol)	214 (6)	37.5 (1.1)
calcium	mg (mmol)	257 (6.4)	45 (1.1)
phosphorus	mg (mmol)	200 (6.4)	35 (1.1)
magnesium	mg (mmol)	35 (1.4)	6.1 (0.25)
iron	mg	4.2	0.74
zinc	mg	3.3	0.58
copper	μ g	340	60
manganese	mg	0.33	0.06
fluoride	mg	–	–
molybdenum	μ g	21.4	3.7
selenium	μ g	10.8	1.9
chromium	μ g	10	1.8
iodine	μ g	40.6	7.1
Vitamins			
vitamin A	μ g RE (IU)	325 (1082)	56.9 (189)
vitamin D	μ g (IU)	6.6 (264)	1.2 (46.2)
vitamin E	mg α -TE (IU)	2.75 (4.1)	0.5 (0.7)
vitamin K	μ g	21	3.7
thiamin	mg	0.35	0.06
riboflavin	mg	0.52	0.09
niacin	mg (mg NE)	3.9 (7.4)	0.68 (1.3)
pantothenic acid	mg	1.46	0.3
vitamin B6	mg	0.4	0.07
folic acid	μ g	47	8.2
vitamin B12	μ g	0.86	0.2
biotin	μ g	22.3	3.9
vitamin C	mg	35	6.2
Others			
choline	mg	56	9.8
inositol	mg	85.7	15
Water			
osmolality (at a 17.5% dilution)	mOsm/kg H ₂ O	–	280
Fatty acid profile			
C ₆	g	0.01	0.002
C ₈	g	4.77	0.83
C ₁₀	g	3.42	0.6
C ₁₂	g	0.08	0.01
C _{14:0}	g	0.08	0.01
C _{16:0}	g	0.53	0.09
C _{18:0}	g	0.32	0.06
C _{18:1}	g	0.53	0.09
C _{18:2}	g	0.53	0.09
C _{18:3}	g	0.08	0.01