

KETOCAL 3:1

DESCRIPTION

An unflavoured very high fat, low carbohydrate, nutritionally complete powder containing a blend of oils, milk proteins (casein and whey), supplemental amino acids, carbohydrate, vitamins, minerals and trace elements.

INDICATIONS

Food for special medical purposes. For the dietary management of drug resistant epilepsy and other conditions where the ketogenic diet is indicated, e.g., disorders of carbohydrate metabolism, such as pyruvate dehydrogenase deficiency and glucose transporter type-1 deficiency. Can be used to administer the classical long-chain triglyceride (LCT) ketogenic diet (3:1).

ADMINISTRATION GUIDELINES

The quantity of feed and the dilution should be determined by a clinician or dietitian only, and is dependent on the age, bodyweight and medical condition of the patient.

PREPARATION AND ADMINISTRATION

Recommended feed dilution is 9.3% w/v (i.e., 9.3 g of product plus 90 ml water to give a final volume of 100 ml). A more concentrated dilution may be medically prescribed based on individual requirements. To ensure that this high fat feed is tolerated when first introducing a ketogenic diet, a less concentrated feed or lower feed volume may need to be provided initially. Care should be taken to ensure adequate free fluids are still provided.

Preparation instructions:

1. Wash hands thoroughly and clean the preparation area. Sterilise feeding and preparation equipment.
2. The powder must be made up with hot water (45°C - 50°C) to fully dissolve. Boil fresh water for 5 minutes and allow to cool to approx. 50°C using a sterile thermometer. Alternatively, mix water that has been freshly boiled for 5 minutes, with cool water (that has been previously boiled for 5 minutes) in a 1:1 ratio to achieve the correct temperature. Pour the required amount of hot water into a sterilised feeding bottle or a sterilised container that seals with a screw-top lid.
3. Weigh out the required amount of KetoCal 3:1.
4. Add the weighed powder to the water. Replace the cap on the bottle or container and shake until the powder dissolves. The prepared formula must be cooled rapidly to the correct temperature before feeding.
5. For bottle and sip feeding, test the temperature by placing a few drops on the wrist. Formula should feel warm to the wrist.
6. Shake or stir product immediately before use. Settling is a normal feature of this product. Product remaining in the bottle after one hour of feeding should be discarded. Prepared feed must not be rewarmed during feeding.

7. For tube feeding, it is recommended the tube is flushed with lukewarm water (approximately 37°C) between each feed.

The health of the infant depends on carefully following the directions for preparation and use. Incorrect preparation can make the baby ill.

Important Notice: Powdered feed is not sterile. Ketocal 3:1 should be prepared immediately prior to feeding. Do not boil and do not use a microwave oven to heat. For tube feeding hanging time should not exceed 2 hours.

GENERAL PRECAUTIONS

Use under medical supervision. For enteral use only.

The product is suitable as a sole source of nutrition until 3 years and as a supplementary feed for infants and children aged over 3 years. Monitor for hypoglycaemia, renal stones, hyperlipidaemia and adequate growth.

STORAGE

Store in a cool, dry place. Always replace container lid after use. Once opened, use within 1 month.

PACK SIZE

300g tin.

INGREDIENTS

Vegetable oils (palm oil, soybean oil, sunflower oil), cow's milk proteins (casein, whey), lactose (from cow's milk), glucose syrup, tri calcium phosphate, potassium citrate, potassium chloride, calcium hydrogen phosphate, choline bitartrate, glycine, oil from *Mortierella alpina*, oil from *Cryptocodium cohnii*, magnesium chloride, L-cystine, L-leucine, sodium caseinate (from cow's milk), L-tryptophan, inositol, magnesium acetate, L-valine, sodium L-ascorbate, L-carnitine, taurine, ferrous sulphate, zinc sulphate, emulsifier (mono- and diglycerides of fatty acids), calcium D-pantothenate, nicotinamide, DL- α tocopheryl acetate, copper sulphate, thiamine hydrochloride, pyridoxine hydrochloride, riboflavin, retinyl acetate, manganese sulphate, antioxidants (DL- α tocopherol, ascorbyl palmitate), chromium chloride, pteroylmonoglutamic acid, potassium iodide, sodium molybdate, sodium selenite, cholecalciferol, D-biotin, cyanocobalamin.



KETOCAL 3:1

AVERAGE CONTENTS	UNIT	PER 100G	PER 100ML*
Energy	kcal	711	66
	kJ	2935	273
Protein	g	15.4	1.4
Carbohydrate	g	7.2	0.67
sugars	g	5.4	0.50
lactose	g	5.09	0.47
Fat	g	68.6	6.4
saturates	g	26.6	2.5
monounsaturates	g	24.0	2.2
polyunsaturates	g	18	1.7
Docosahexaenoic acid (DHA)	mg	180	16.5
Arachidonic acid (AA)	mg	180	16.5
Dietary fibre	g	-	-
Minerals			
sodium (Na)	mg (mmol)	355 (15.5)	33.1 (1.44)
potassium (K)	mg (mmol)	920 (23.5)	85.6 (2.19)
chloride (Cl)	mg (mmol)	545 (15.4)	50.7 (1.43)
calcium (Ca)	mg (mmol)	810 (20.2)	75.3 (1.88)
phosphorus (P)	mg (mmol)	546 (17.6)	50.8 (1.64)
magnesium (Mg)	mg (mmol)	78.1 (3.21)	7.27 (0.30)
iron (Fe)	mg	12.1	1.12
zinc (Zn)	mg	8.53	0.79
copper (Cu)	mg	0.51	0.048
manganese (Mn)	mg	0.14	0.013
fluoride (F)	mg	-	-
molybdenum (Mo)	µg	34.9	3.25
selenium (Se)	µg	27.0	2.51
chromium (Cr)	µg	29	2.70
iodine (I)	µg	104	9.66
Vitamins			
vitamin A	µg	389	36.2
vitamin D ₃	µg	17.0	1.58
vitamin E	mg	9.02	0.84
vitamin K	µg	55.4	5.15
thiamin (B ₁)	mg	0.71	0.07
riboflavin (B ₂)	mg	0.71	0.07
niacin (B ₃)	mg (mg NE)	4.97 (11.3)	0.46 (1.05)
pantothenic acid (B ₅)	mg	6.03	0.56
vitamin B ₆	mg	0.71	0.07
folic acid	µg	106	9.90
vitamin B ₁₂	µg	1.4	0.13
biotin	µg	14.2	1.32
vitamin C	mg	95.6	8.89
Others			
choline	mg	225	20.9
inositol	mg	155	14.5
l-carnitine	mg	48.8	4.54
Water			
osmolality	mOsm/kg H ₂ O	-	105

* Made up to standard dilution (9.3% w/v).

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

For more information contact the Nutricia Care Line:

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