



Cow & Gate nutriprem human milk fortifier

Indications

Cow & Gate nutriprem human milk fortifier is a food for special medical purposes for the dietary management of preterm and low birthweight infants, particularly those with a very low birthweight (<1500g) and before suckling has been established (at approx 34–36 weeks gestation). It can be added to a mother's own expressed breastmilk, or to donor breastmilk. This product should only be used under the close supervision of a neonatologist or dietitian. Cow & Gate nutriprem human milk fortifier is suitable for vegetarians.

Contra-indications

- I. Not suitable for intravenous use.
- II. It should not be used to enrich low birthweight formulas or infant milks.
- III. Dexamethasone treatment induces a catabolic effect, which is accompanied by increased plasma urea and amino acid concentrations. When using Cow & Gate nutriprem human milk fortifier with infants receiving dexamethasone, it is advisable to regularly monitor the plasma urea and amino acid levels to ensure that these remain within the clinically acceptable range¹⁻³.

Precautions

- I. Cow & Gate nutriprem human milk fortifier is not sterile.
- II. Discard any unused product after opening.
- III. If the baby's weight gain is inadequate, the fat content of the fortified breastmilk should be monitored.
- IV. Agitate feed containers to reduce fat adherence, and position infusion syringes so that the feed is discharged in an upward direction, in order that any separated fat is given to the baby first.
- V. This product contains a range of vitamins and minerals (except iron to allow for individual supplementation), therefore nutritional supplements may need to be reviewed as appropriate.

Pack formats

Cow & Gate nutriprem human milk fortifier is available in a powder format. 50 x 2.2g sachets are supplied to hospital in boxes of 4.

Shelf life

24 months. Best before date: see top of pack.

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1. Brownlee KG *et al.* Arch Dis Child 1992;67:1-4. 2. Williams AF, Jones M. Arch Dis Child 1992;67:5-9. 3. Van Goudoever JB *et al.* J Pediatr 1994;124:112-8.

Instructions for use

- I. Wash hands and sterilise all utensils according to manufacturer's instructions.
- II. Check the best before date before use.
- III. Measure the required amount of breastmilk into a sterilised bottle or feeding equipment.
- IV. Add the contents of one sachet (2.2g) to every 50ml of warm breastmilk (approx 37°C). If less milk volume is available, please reduce the amount of powder accordingly to avoid over-concentration. If less than one sachet is being used, please weigh the powder with a laboratory scale if available, in strictly hygienic conditions.
- V. Swirl gently until powder is dissolved completely.
- VI. For best practice use fortified feed immediately or in accordance with hospital procedures for handling fortified breastmilk.

Storage

All Cow & Gate products carry preparation instructions. The sachets, which are packed in a protective atmosphere, should be kept tightly sealed and stored in a dry and cool place (do not refrigerate). Discard any unused opened sachets.

Ingredients

Maltodextrin, Whey protein hydrolysate (from **milk**), Casein hydrolysate (from **milk**), Calcium glycerophosphate, Calcium lactate, Sodium chloride, Magnesium citrate, Sodium citrate, Vitamin C, Potassium chloride, Vitamin E, L-tryptophan, Niacin, Vitamin A, Vitamin D₃, Zinc sulphate, Pantothenic acid, Vitamin K₁, Riboflavin, Vitamin B₁₂, Thiamin, Vitamin B₆, Copper sulphate, Folic acid, Manganese sulphate, Potassium iodide, Sodium selenite, Biotin.

Allergy Advice. For allergens, see ingredients in **bold**.

PDS: 0120788 V3





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Typical values	Units	Sachet: (2 x 2.2g sachets for use in 100ml)	Preterm breastmilk /100ml*	Preterm breastmilk +2 sachets (4.4g)/100ml*
Major Nutrients				
Energy				
	kJ	65	280	346
	kcal	15	67	82
Fat	g	0	3.5	3.5
Carbohydrate	g	2.7	7.3	10.0
of which, lactose	g	0	7.3	7.3
Fibre	g	0	0	0
Protein	g	1.1	1.6	2.7
Salt	g	0.09	0.07	0.16

Vitamins

Vitamin A	µg RE	232	15	247
Vitamin D ₃	µg	5	0.2	5.2
Vitamin E	mg α-TE	2.6	0.35	3.0
Vitamin K ₁	µg	6.4	2	8.4
Vitamin C	mg	12	4.4	16.4
Thiamin (B ₁)	mg	0.13	0.0089	0.14
Riboflavin (B ₂)	mg	0.17	0.027	0.2
Niacin (B ₃)	mg	2.3	0.21	2.5
Pantothenic acid	mg	0.8	0.23	1.0
Vitamin B ₆	mg	0.11	0.0062	0.1
Folic acid	µg	30	3.1	33.1
Vitamin B ₁₂	µg	0.2	0.02	0.2
Biotin	µg	2.5	0.54	3.0

Minerals

Sodium	mg	35	28	63
Potassium	mg	23	50	73
Chloride	mg	25	58	83
Calcium	mg	66	25	91
Phosphorus	mg	38	14.5	52.5
Magnesium	mg	5	3.3	8.3
Iron	mg	0	0.09	0.09
Zinc	mg	0.61	0.37	0.98
Copper	mg	0.04	0.04	0.08
Manganese	mg	0.008	0.0004	0.009
Selenium	µg	1.7	2.4	4.1
Iodine	µg	11	17.8	28.8

Others

		Dissolved in breastmilk
Osmolarity	mOsmol/l	400
Osmolality	mOsmol/kg H ₂ O	450
		Dissolved in water
Potential renal solute load	mOsmol/l	104

Details correct as of November 2017.

References

*Koletzko B *et al.* Nutritional Care of Preterm Infants. Scientific Basis and Practical Guidelines, World Rev Nutr Diet, Karger 2014 vol 110: 304-305.

Healthcare professional helpline

0800 996 1234 eln.nutricia.co.uk

IMPORTANT NOTICE: Cow & Gate nutriprem human milk fortifier is a food for special medical purposes for the dietary management of preterm and low birthweight infants. It should only be used under medical supervision, after full consideration of the feeding options available including breastfeeding. Suitable for use as the sole source of nutrition for infants. For enteral use only.