Fresubin® HP energy

High energy, protein rich tube feed with MCT for patients with increased energy and protein requirements and/or fluid restriction such as



- Long-term hypermetabolic conditions
- Cardiopulmonary insufficiency
- Cystic Fibrosis
- CAPD (continuous peritoneal dialysis)
- Decubitus



Features and Benefits

- High in energy (1,5 kcal/ml)
- Rich in protein (112,5 g/RDD*)
- Rich in MCT (57% of fat) for easy absorption
- Addition of EPA* and DHA** from fish oil; Recommended ratio of ω-6/ω-3 fatty acids of 4:1^{1,2,3} for immune function support
- Recommended ratio of Vit. C:E:β-Carotene⁴ and increased selenium for antioxidative defence support
- Increased zinc for wound healing support
- Fibre free
- 500 ml & 1000 ml EasyBag,
 500 ml glass bottle

ENTERAL NUTRITION



Fresubin® HP energy

Nutritional Information

Average content per 100 ml

Caloric value	630 kJ (= 150 kcal)
Protein (20 Energy%)	7.5 g
Carbohydrates (45 Energy%) of which sugars of which lactose	1.0 g ≤ 0.06 g
Fat (35 Energy%) of which saturated fatty acids of which monounsaturated fatty acids of which polyunsaturated fatty acids of which MCT of which EPA + DHA of which cholesterol	3.7 g 0.5 g 1.5 g 3.3 g 0.05 g ≤ 1.7 mg
Water	79 ml
Osmolarity	300 mosmol/l
Osmolality	400 mosmol/kg H₂O

Vitamins and other* nutrients:

Vit. A	70 µg	Vit. B ₆	0.16 mg
β-Carotene	130 µg	Vit. B ₁₂	0.27 µg
Vit. D	1.0 µg	Pantothenic acid	0.47 mg
Vit. E	1.33 mg	Biotin	5 µg
Vit. K₁	6.67 µg	Folic acid	27 µg
Vit. B ₁	0.13 mg	Vit. C	6.7 mg
Vit. B ₂	0.17 mg	Choline*	26.7 mg
Niacin	1.6 mg		

Minerals and trace elements:

Sodium	120	mg	Copper	130 µg
Potassium	234	mg	Manganese	0.27 mg
Chloride	184	mg	lodide	13.3 µg
Calcium	80	mg	Fluoride	0.13 mg
Magnesium	27	mg	Chromium	6.7 µg
Phosphorus	63	mg	Molybdenum	10 µg
Iron	1.3	3 mg	Selenium	6.7 µg
Zinc	1.2	mg		, -

Carbohydrate Composition g/100 ml

Glucose	0.31
Maltose	0.71
Lactose	0.02
Oligosaccharides and polysaccharides	15.98

Fatty Acid Profile g/100 ml

Amino Acid Pattern g/100 ml

Indispensable (essential)		Dispensable (non essential)	
Lysine	0.66	Glycine	0.16
Threonine	0.37	Alanine	0.33
Methionine	0.23	Proline	0.80
Phenylalanine	0.39	Serine	0.46
Tryptophan	0.15	Glutamic acid	0.98
Valine	0.55	Aspartic acid and Asparagine	0.66
Leucine	0.87	Total	3.39
Isoleucine	0.43	10101	0.07
Total	3.65		
Conditionally indispensable			
Tyrosine	0.42		
Cysteine	0.08		
Histidine	0.25		
Arginine	0.28		
Glutamine	0.72		
Total	1.75		

Ingredients

Water, maltodextrin, milk protein, medium chain triglycerides (MCT), vegetable oils, minerals, acid regulators (E 332, E 530, E 170), fish oil, vitamins, choline chloride, emulsifier (E 471), trace elements

Prescribing Information

Food for special medical purposes:

Nutritionally complete high energy protein rich tube feed with MCT, fibre free, clinically free from lactose, gluten free.

Intended use:

For the dietary management of patients with high protein and energy needs.

Dosage:

For complete nutrition ≥ 1.5 I/day. Increase slowly when commencing tube feeding.

Important notes:

To be used under medical supervision. Take care to control delivery rate. For total or supplementary nutrition. Water equilibrium should be monitored. Drug interaction may occur with certain medication. Careful monitoring is required.

Storage:

Store at room temperature.

Usage guide:

Recommended tube size: \geq FR 12 for gravity feeding, \geq FR 5 for pump assisted feeding. Do not use if bag is damaged or swollen or content is coagulated. Shake well before use!

Contra Indications:

- Not suitable where enteral feeding is not permitted such as: gut atonia and others
- Not suitable for impaired renal function and reduced protein tolerance
- Not suitable for congenital inability to metabolise nutrients contained in Fresubin® HP energy
- Not suitable for infants < 1 year.

References:

- 1. Simopoulos AP: Am J Clin Nutr 1990; 70 (Suppl.): 560s-569s
- 2. Gerster H: Internat J Vit Nutr Res 1998; 68: 159-173
- 3. Dach: Referenzwerte für die Nährstoffzufuhr, 2000
- 4. Biesalski et al: Clin. Nutrition 1997; 16: 151-155

^{*}EPA = Eicosapentaenoic acid, **DHA = Docosahexaenoic acid, *Recommended Daily Dosage to meet Population Reference Intake (1500 ml)



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