



Fresubin® Renal

Tailored for impaired renal function

2 kcal/mL, low protein sip and tube feed reduced in electrolytes for the dietary management of conservatively treated patients with chronic kidney disease (CKD) or non-catabolic forms of acute kidney injury

Micronutrient profile adapted to the needs of renal patients: reduced in phosphorus, sodium and potassium¹ low in vitamin A and high in B-vitamins (especially B₆ and folic acid)²

6% energy protein (=30 g/1000 mL) from high quality milk protein to slow down progression of CKD^{1,3}

Modified carbohydrate profile with isomaltulose and starch

Modified fat profile with fish oil in the recommended daily intake for adults for cardiovascular protection⁴⁻⁶, high in monounsaturated fatty acids (MUFA) to improve glycaemic control^{7,8}

Fresubin[®] Renal

Available in Vanilla flavour
in 200 mL EasyBottle



Nutritional Information

Average content		100 mL	bottle = 200 mL
Energy value			
		kJ	1680
		(kcal)	(400)
Fat (40% Energy)		g	17.8
of which saturated fatty acids		g	5.4
of which medium chain triglycerides		g	4.4
of which monounsaturated fatty acids		g	9.4
of which polyunsaturated fatty acids		g	2.94
of which EPA + DHA*		g	0.12
Carbohydrate (53% Energy)		g	52.8
of which sugars		g	16.34
of which lactose		g	≤ 0.8
Fibre (1% Energy)		g	2.4
Protein (6% Energy)		g	6.0
Salt (Na x 2.5)		g	0.34
Water		mL	142
Lactose Content		g	≤ 0.8
Gluten Content		ppm	≤ 20
Osmolarity		mosmol/l	500
Minerals and trace elements			
Sodium	mg	68	136
Chloride	mg	62	64
Potassium	mg	100	200
Calcium	mg	84	168
Phosphorus	mg	55	110
Magnesium	mg	20	40
Iron	mg	2.0	4.0
Zinc	mg	1.8	3.6
Copper	µg	200	400
Iodine	µg	20	40
Selenium	µg	10	20
Manganese	mg	0.4	0.8
Chromium	µg	3.0	6.0
Molybdenum	µg	7.0	14.0
Fluoride	mg	0.3	0.6
Vitamins and other nutrients[^]			
Vitamin A	µg RE ^o	81.3	162.6
of which β-Carotene	µg RE ^o	33.3	66.6
Vitamin D ₃	µg	1.0	2.0
Vitamin E	mg α-TE ^{oo}	3.0	6.0
Vitamin K ₁	µg	10.5	21.0
Vitamin C	mg	10	20
Thiamin (vitamin B ₁)	mg	0.26	0.52
Riboflavin (vitamin B ₂)	mg	0.3	0.6
Vitamin B ₆	mg	0.67	1.34
Niacin	mg/mg NE ^{ooo}	3.4/4.2	6.8/8.4
Folic Acid	µg	100	200
Vitamin B ₁₂	µg	0.6	1.2
Pantothenic Acid	mg	1.2	2.4
Biotin	µg	12	24
Choline [^]	mg	55	110
Taurine [^]	mg	20	40
L-Carnitine [^]	mg	10	20
Inositol [^]	mg	24	48

*eicosapentaenoic acid (EPA), docosahexaenoic acid (DHA)
^oretinol equivalents (RE), ^{oo}alpha-tocopherol equivalents (α-TE), ^{ooo}niacin equivalents (NE)

Prescribing Information

Food for special medical purposes:

Nutritionally complete high-caloric (2 kcal/mL) oral nutritional supplement and tube feed, with fibre. Reduced protein (6% energy) and electrolytes. With fish oil. Carbohydrate modified with starch and isomaltulose. Low in lactose and gluten. For the dietary management of patients with or at risk of disease-related malnutrition, in particular with chronic kidney disease or non-catabolic forms of acute kidney injury.

Dosage:

To be determined by a health care professional according to patients' needs. Recommendation for supplementary nutrition 2–3 bottles (800–1200kcal) / day and complete ≥ 5 bottles (2000 kcal) / day.

Important notes:

To be used under medical supervision. Monitor feeding rate when used for tube feeding. Suitable as sole source of nutrition. Not suitable for infants children < 3 years. Use with caution in children < 6 years. Not suitable for patients with galactosaemia. Ensure adequate fluid intake.

Not for parenteral (I.V.) use!

Instruction for use:

If used as tube feed: Recommended tube size is ≥ CH 8 for pump assisted feeding and for gravity feeding the minimum tube size is CH 8. Store at room temperature. Once opened, use within 24 hours. If used for sip feeding, shake well before use and drink slowly. If used for tube feeding, do not mix with drugs. Packaged in a protective atmosphere.

Contraindications:

Not suitable whenever enteral nutrition is not permitted such as in acute gastrointestinal bleeding, ileus and shock. Not suitable for patients with congenital inability to metabolise nutrients contained in Fresubin Renal.

Ingredients

Water, maltodextrin, isomaltulose[^], vegetable oils (rapeseed oil, sunflower oil), tapioca dextrin, milk protein, medium chain triglycerides (MCT), emulsifiers (E 471, soya lecithins), flavouring, sodium citrate, fish oil (with soya lecithins), choline hydrogen tartrate, potassium chloride, potassium citrate, vit. C, magnesium oxide, myo-inositol, taurine, acidity regulator (E 524), L-carnitine, iron pyrophosphate, zinc sulphate, niacin, pantothenic acid, manganese chloride, vit. E, vit. B₆, sodium fluoride, copper sulphate, vit. B₂, vit. B₁, β-carotene, folic acid, vit. A, sodium selenite, biotin, potassium iodide, sodium molybdate, vit. K₁, chromium chloride, vit. B₁₂, vit. D₃.

Allergen Information: This product contains milk, soy and fish oil.

[^] isomaltulose is a source of glucose and fructose

Flavour

Vanilla

References

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- 7) Pohl M, Mayr P, Merti-Roetzer M, et al. Glycemic control in patients with type 2 diabetes mellitus with a disease-specific enteral formula: stage II of a randomized, controlled multicenter trial. JPEN. 2009;33(1):37-49.
- 8) Lochs H, Allison SP, Meier R, et al. Introductory to the ESPEN Guidelines on Enteral nutrition: terminology, definitions and general topics. Clin Nutr. 2006;25(2):180-186.



**FRESENIUS
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caring for life

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PM2019.539V2 Pub: October 2019