



Fresubin[®] Renal

Tailored for impaired renal function

2 kcal/mL, low protein sip 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

For Healthcare Professionals Only



Low protein (6% energy) 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}

*Meets nutrient reference values required for complete nutrition⁹

Fresubin® Renal DRINK

Available in **one** delicious flavour



Nutritional Information

Average content		100 mL	bottle = 200 mL
Energy value			
		kJ (kcal)	1680 (400)
Fat (40% Energy)		g	17.8
of which SFA [*]		g	5.4
of which medium chain triglycerides		g	4.4
of which MUFA ^{**}		g	9.4
of which PUFA ^{***}		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	≤ 0.4
Fibre (1% Energy)		g	2.4
Protein (6% Energy)		g	6.0
Water		mL	142
Osmolarity		mosmol/L	565
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 [°]	81.3	162.6
of which β-Carotene	µg RE [°]	33.3	66.6
Vitamin D ₃	µg	1.0	2.0
Vitamin E	mg α-TE ^{°°}	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 ^{°°°}	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

^{*}saturated fatty acids (SFA), ^{**}monounsaturated fatty acids (MUFA),
^{***}polyunsaturated fatty acids (PUFA) [°]eicosapentaenoic acid ^{**}docosahexaenoic acid
[°]retinol equivalents (RE), ^{°°}alpha-tocopherol equivalents (α-TE), ^{°°°}niacin equivalents (NE)

General Information

Food for special medical purposes:

Nutritionally complete high-caloric (2 kcal/mL) oral nutritional supplement, with fibre. Reduced protein (6% energy), carbohydrate modified with starch and isomaltose, electrolyte modified and contains fish oil. 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 healthcare professional according to patients' needs. Recommendation for supplementary nutrition 2-3 bottles (800-1200kcal/day and complete ≥5 bottles (2000 kcal)/day.

Important notice:

To be used under medical supervision. 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:

Best served chilled. Shake well before use. Store at room temperature. Opened bottles may be stored in a refrigerator for up to 24 hours.

Additional considerations:

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

Fresubin Renal DRINK Vanilla: Water, maltodextrin, isomaltulose[^], vegetable oils (rapeseed oil, sunflower oil), tapioca dextrin, milk protein, medium chain triglycerides (MCT), emulsifiers (E 471, soya lecithin), flavouring, sodium citrate, fish oil (with soya lecithin), 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: Contains milk and soy. Low lactose and gluten free.

Halal and Kosher certified.

[^]isomaltulose is a source of glucose and fructose

Flavour

Vanilla

References

- Cano N, Fiaccadori E, Tesinsky P, et al. ESPEN Guidelines on Enteral Nutrition: Adult Renal Failure. Clin Nutr. 2006;25(2):295-310. **2.** Streiber AL, Kopple JD. Vitamin status and needs for people with stages 3-5 chronic kidney disease. J Ren Nutr. 2011;21(5):355-368. **3.** Fouque D, Laville M. Low protein diets for chronic kidney disease in non diabetic adults. Cochrane Library. 2009. CD001892. **4.** Kris-Etherton, PM, Grieger JA, Etherton TD. Dietary reference intakes for DHA and EPA. Prostaglandins Leukot Essent Fatty Acids. 2009;81(2):99-104. **5.** International Society for the Study of Fatty Acids and Lipids (ISSFAL): Recommendations for Dietary Intake of Polyunsaturated Fatty Acids in Healthy Adults, Report June 2004. **6.** Lee JH, O'keefe JH, Lavie CJ, et al. Omega-3 fatty acids for cardioprotection. Mayo Clin Proc. 2008;83(3):324-332. **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. **9.** National Health and Medical Research Council: Nutrient Reference Values Australia and New Zealand. <https://www.eatforhealth.gov.au/nutrient-reference-values>. Accessed May, 2023.



**FRESENIUS
KABI**

caring for life

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