

RENILON 4.0

A ready-to-drink, high energy, low protein, low electrolytes, oral nutritional supplement for the dietary management of renal failure requiring protein restriction.

FEATURES

- **250kcal/bottle (2kcal/ml):** energy-dense ONS[^] for patients requiring fluid or volume restriction.
- **5g protein/bottle (8% energy):** decreased protein level to prevent an overloading of nitrogenous waste products due to impaired excretion.¹²
- **Reduced mineral content (sodium, potassium, chloride, calcium, phosphorus, magnesium):** for patients that require select mineral restriction.
- **Elevated levels of micronutrients with antioxidant properties (zinc, copper, manganese, selenium, carotenoids, vitamin E, riboflavin, vitamin B₆, folic acid, vitamin B₁₂) compared to standard ONS[^]:** to support and mitigate increased oxidative stress in pre-dialysis patients.³⁻¹²
- **Does not contain preformed vitamin A:** to prevent hypervitaminosis.^{11,13-17}
- **Fibre free:** for patients requiring residue-restricted diet.
- **Small volume (125ml):** for patients requiring fluid or volume restriction.
- **User-friendly bottle:** ergonomic plastic bottle, with resealable easy to open cap.

Indications

For the dietary management of:

- Disease-related malnutrition.
- Patients with renal disease receiving conservative treatment (pre-dialysis).
- Patients requiring a fluid or volume restriction.
- Patients requiring a select mineral restriction.

Important Notice

- Not suitable as a sole source of nutrition.
- Not for parenteral use.
- Not suitable for patients with galactosaemia.
- Not suitable for patients with cow's milk protein allergy.
- Not suitable for infants and children under 3 years of age.

Directions for Use

- Shake well before use.
- Best served chilled.
- Usage to be determined by a healthcare professional.

Storage

- Store in a cool, dry place.
- Once opened, store in the refrigerator.
- Discard unused content after 24 hours.

Ordering Information

To order contact Nutricia Customer Care **1800 889 480**.

Renilon 4.0	Presentation	Product code	Units per carton
Apricot	125ml bottle	70977	24

Ingredients

Renilon 4.0 Apricot: Demineralised water, maltodextrin, vegetable oils (sunflower oil, rapeseed oil), whey protein (from cow's milk), fructose, choline citrate, flavouring (apricot), colours (carmine, curcumin), carotenoids (contains soy), (lycopene oleoresin from tomatoes, beta carotene, lutein), potassium citrate, ferrous lactate, taurine, L-carnitine, potassium hydroxide, sodium L-ascorbate, zinc sulphate, sodium hydroxide, DL- α -tocopheryl acetate, manganese sulphate, nicotinamide, calcium D-pantothenate, pyridoxine hydrochloride, cholecalciferol, thiamin hydrochloride, riboflavin, sodium fluoride, pteroylmonoglutamic acid, chromium chloride, sodium molybdate, sodium selenite, potassium selenite, potassium iodide, D-biotin, phytomenadione, cyanocobalamin.

Allergen & Cultural Information

- Contains: cow's milk protein, soy.
- Does not contain: wheat, egg, nuts*, lupins.
- Halal certified.
- No Kosher forbidden ingredients.
- No gluten containing ingredients.
- Low lactose (lactose <2g/100g).



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NUTRITION INFORMATION		Per 100ml	Per 125ml
Energy	kcal	200	250
	kJ	838	1048
Protein	g	4 (8% E)	5
Whey	g	4	5
Carbohydrate	g	23.6	29.5
Sugars	g	5	6.3
as Lactose	g	<0.050	<0.063
Fat	g	10 (45%E)	12.5
Saturates	g	0.84	1.05
Monounsaturates	g	7.1	8.8
Polyunsaturates	g	2.0	2.5
ω6 / ω3 ratio		6.7:1	6.7:1
Fibre	g	0	0
Water	ml	71	89
Minerals		Per 100ml	Per 125ml
Sodium	mg	37.8	47.3
	mmol	1.6	2.1
Potassium	mg	27.9	34.9
	mmol	0.7	0.9
Calcium	mg	<7.5	<9.4
Phosphorus	mg	<6.0	<7.5
Magnesium	mg	<1.5	<1.9
Chloride	mg	<7.0	<8.8

* Peanut (*Arachis hypogaea*), Almond (*Amygdalus communis* L.), Hazelnut (*Corylus avellana*), Walnut (*Juglans regia*), Cashew (*Anacardium occidentale*), Pecan nut (*Carya illinoensis* (Wangenh.) K. Koch), Brazil nut (*Bertholletia excelsa*), Pistachio nut (*Pistacia vera*), Macadamia nut and Queensland nut (*Macadamia ternifolia*) and products thereof.

^ONS - Oral Nutritional Supplement.

REFERENCES 1. Toigo G, Aparicio M, Attman PO et al. Consensus Report. Expert working group report on nutrition in adult patients with renal insufficiency (part 1 of 2). *Clin Nutr* 2000; 19: 197-207. 2. Toigo G, Aparicio M, Attman PO et al. Consensus Report. Expert working group report on nutrition in adult patients with renal insufficiency (part 2 of 2). *Clin Nutr* 2000; 19: 281-291. 3. Chugh SN, Jain S, Agrawal N, Sharma A. Evaluation of oxidative stress before and after haemodialysis in chronic renal failure. *J Assoc Physicians India* 2000; 48: 981-84. 4. Ceballos-Picot I, Witko-Sarsat V, Merad-Boudia M, Nguyen AT et al. Glutathione antioxidant system as a marker of oxidative stress in chronic renal failure. *Free Radic Biol Med* 1996; 21: 845-53. 5. Martin-Mateo MC, Sanchez-Portugal M, Iglesias S, de Paula A, Bustamante J. Oxidative stress in chronic renal failure. *Ren Fail* 1999; 21: 155-67. 6. Mimic-Oka J, Simic T, Djukanovic L, Reljic Z, Davicevic Z. Alteration in plasma antioxidant capacity in various degrees of chronic renal failure. *Clin Nephrol* 1999; 51: 233-41. 7. Richard MJ, Arnaud J, Jurkovic T, Hachache T et al. Trace elements and lipid peroxidation abnormalities in patients with chronic renal failure. *Nephron* 1991; 57: 10-5. 8. Stratton R. Rationale for the addition of carotenoids to enteral tube and sip feeds. *Nutricia Healthcare* 2000, on file. 9. Islam KN, O'Byrne D, Devaraj S, Palmer B et al. Alpha-tocopherol supplementation decreases the oxidative susceptibility of LDL in renal failure patients on dialysis therapy. *Atherosclerosis* 2000; 150: 217-24. 10. Makoff R, Dwyer J, Rocco MV. Folic acid, pyridoxine, cobalamin and homocysteine and their relationship to cardiovascular disease in end-stage renal disease. *J Renal Nutr* 1996; 6: 2-11. 11. Makoff R. Vitamin replacement therapy in renal failure patients. *Miner Electrolyte Metab* 1999; 25: 349-351. 12. Bender DA, Bender AE. Nutrition. A reference handbook. Oxford: Oxford University Press, 1997. 13. Muth I. Implications of hypervitaminosis A in chronic renal failure. *J Renal Nutr* 1991; 1: 2-8. 14. Khan IH, Richmond P, Macleod AM. Diseases of the kidneys and urinary tract. In: Garrow JS, James WPT, Ralph A (eds). *Human nutrition and dietetics*. Tenth edition. Edinburgh: Churchill Livingstone, 2000; 667-687. 15. Goldstein DJ, Abrahamian-Gebeshian C. Nutrition support in renal failure. In: Matarese LE, Gottschlich MM (eds). *Contemporary Nutrition Support Practice. A Clinical Guide*. Philadelphia: WB Saunders 1998; 447-47. 16. Ha TK, Sattar N, Talwar D, Cooney J, Simpson K, O'Reilly DS et al. Abnormal antioxidant vitamin and carotenoid status in chronic renal failure. *QJM* 1996; 89: 765-769. 17. Allman MA, Truswell AS, Tiller DJ, Stewart PM et al. Vitamin supplementation of patients receiving haemodialysis. *Med J Aust* 1989; 150: 130-133.

Vitamins		Per 100ml	Per 125ml
Vitamin A	µg-RE	0	0
Vitamin D	µg	1.5	1.8
Vitamin E	mg α-TE	5	6.3
Vitamin K	µg	11	13.8
Vitamin C	mg	6	7.5
Thiamin	mg	0.3	0.4
Riboflavin	mg	0.38	0.48
Niacin	mg NE	3.6	4.5
Vitamin B ₆	mg	0.6	0.8
Vitamin B ₁₂	µg	0.47	0.59
Folic Acid	µg	100	125
Pantothenic Acid	mg	1.1	1.3
Biotin	µg	8	10
Trace Elements		Per 100ml	Per 125ml
Iron	mg	3.2	4
Zinc	mg	2.7	3.4
Manganese	mg	0.75	0.94
Copper	mg	0.4	0.5
Iodine	µg	26.9	33.6
Molybdenum	µg	17	21.3
Selenium	µg	16	20
Chromium	µg	13	16.3
Fluoride	mg	0.2	0.3
Other		Per 100ml	Per 125ml
Carotenoids	mg	0.45	0.56
Choline	mg	73.4	91.8
L-Carnitine	mg	14.8	18.5
Taurine	mg	15	18.8
Osmolality	mOsmol/ kgH ₂ O	640	640

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

For more information call the
Nutricia Careline 1800 438 500

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