

Renapro[®] Shot



„Wild Berry“ Flavour

30 Shots à 20 g of protein

60 ml liquid per shot

With sweeteners

Complies with the daily additional requirements of protein of dialysis patients

An elementary diet for patients with renal failure (FSMP)

Data Sheet

- ✓ Ready-to-drink shot
- ✓ Low in phosphate and potassium
- ✓ Low in volume
- ✓ Improved variety of amino acids
- ✓ Increased resorption
- ✓ Allergy free
- ✓ Suitable for diabetics

Composition

	per 100 ml	per 60 ml
Energy	583 kJ 137 kcal	350 kJ 82 kcal
Protein	33 g	20 g
Amino Acids		
Isoleucine	0.50 g	0.30 g
Leucine	0.96 g	0.57 g
Lysine	1.12 g	0.67 g
Methionine	0.20 g	0.12 g
Phenylalanine	0.69 g	0.42 g
Threonine	0.63 g	0.38 g
Valine	0.79 g	0.48 g
Ess. Amino Acids	4.89 g	2.94 g
Histidine	0.26 g	0.16 g
Arginine	2.77 g	1.66 g
Glutamine	4.09 g	2.46 g
Glycine	6.80 g	4.08 g
Proline	3.80 g	2.28 g
Tyrosine	0.17 g	0.10 g
Conditionally Ess. Amino Acids	17.17 g	10.74 g
Alanine	2.67 g	1.60 g
Asparagine	2.18 g	1.31 g
Serine	1.12 g	0.67 g
Hydroxy-Lysine	0.40 g	0.24 g
Hydroxy-Proline	3.76 g	2.26 g
Non Ess. Amino Acids	10.13 g	6.08 g
Carbohydrates	2.0 g	1.2 g
of which sugar (=Fructose)	2.0 g	1.2 g
Fat	<0.1 g	<0.1 g
of which saturated fatty acids	<0.1 g	<0.1 g
Fiber	0 g	0 g
Minerals		
Salt	500 mg	300 mg
Sodium	190 mg	114 mg
Potassium	18 mg	11 mg
Calcium	27 mg	16 mg
Magnesium	2.6 mg	1.6 mg
Phosphorus	1.5 mg	0.9 mg

BE: 0.1/ 60ml

Phosphorus-Protein-relationship: 0.05

Ingredients

Water, bovine collagen peptides, acidifier (citric acid), fructose, preservation (potassium sorbate, sodium benzoate), sweetener (sucralose), flavour.

What is Renapro[®] Shot?

Renapro[®] Shot contains collagen peptides.

Collagen is the most abundant protein in the human body. A key constituent of all connective tissue, it provides the infrastructure of the musculoskeletal system and is the main structural element of the skin.

Collagen peptides are a hydrolyzed form of collagen. Renapro[®] Shot collagen peptides are unique, high-purity bioactive collagen peptides. They are manufactured using a gentle enzymatic process, enabling a precise degree of hydrolysis and optimal molecular weight of only 2.000 Dalten to ensure superior performance and ease of use.

Renapro[®] Shot collagen peptides are highly digestible. After resorption of the collagen peptides by the enterocytes, the human body can transfer the collagens easily into proteins. Studies have demonstrated that over 90% of hydrolysates are digested and available in connective tissues within a few hours of ingestion. This rapid availability ensures the effective delivery of essential peptides and amino acids to the body.

Renapro[®] Shot contains 22g of collagen peptides which equal to 20g of protein. That dosage complies with the daily additional requirement of protein of dialysis patients.

Amino acids of Renapro[®] Shot

Amino acids in % of protein	Renapro [®] Shot	Whey protein	Soya protein
Alanine	8	4	4
Arginine	8	2	8
Glutaminacid	11	13	19
Glycine	20	1.5	4
Hydroxy-Proline	12	0	0
Proline	13	4	5

Advantages of Renapro[®] Shot

over conventional whey protein

- ✓ Ready-to-drink shot - no compounding
- ✓ Complies with the daily additional requirements of protein of dialysis patients
- ✓ No allergies (lactose intolerance or milk protein allergy)
- ✓ Increased digestion and resorption by the intestinal enterocytes due to the 2.000 Dalten small collagen peptides. The increased protein absorption itself reduces the mortality of dialysis patients.
- ✓ Improved variety of amino acids
- ✓ Suitable for diabetics

Post

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Important Notice

Renapro[®] Shot is not a complete food and is not suitable for use as a sole source of nutrition. Only to be used under medical supervision.

Renapro[®] Shot is free of

Cholesterol, galactose, gluten, milk, lactose, purine, sucrose, chrome and artificial colourants.

Allergy

Renapro[®] Shot contains no common allergen corresponding to (EU) No. 1169/2011.

Areas of Use

Food for Special Medical Purpose. For the dietary management of dialysis patients with catabolism, cachexia, hyperphosphatemia with a need for increased protein intake.

Dosage

If not otherwise prescribed by the physician:

Haemodialysis patients:	1 shot/ day
Peritoneal dialysis patients (CAPD):	1 shot/ day
Proteinuria:	1-2 shots/ day

Dosage for Children

As prescribed by a doctor - depending on dietary conditions (protein requirements).

Application

Ready-to-drink shot. Shake well before use.

Storage

Store at room temperature (25° C) and avoid heat and moisture. Keep open shot in the fridge and consume open product within three days.

Literature

- Asghar, A., and R. L. Henrickson. "Chemical, Biochemical, Functional, and Nutritional Characteristics of Collagen in Food Systems." *Adv Food Res* 28 (1982): 231-372.
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- Dong, J., Y. Li, Y. Xu, and R. Xu. "Daily Protein Intake and Survival in Patients on Peritoneal Dialysis." *Nephrol Dial Transplant* 26, no. 11 (Nov 2011): 3715-21.
- Guida, B., A. Piccoli, R. Trio, R. Laccetti, A. Nastasi, A. Paglione, A. Memoli, and B. Memoli. "Dietary Phosphate Restriction in Dialysis Patients: A New Approach for the Treatment of Hyperphosphataemia." *Nutr Metab Cardiovasc Dis* 21, no. 11 (Nov 2011): 879-84.
- Oesser, S., M. Adam, W. Babel, and J. Seifert. "Oral Administration of (14)C Labeled Gelatin Hydrolysate Leads to an Accumulation of Radioactivity in Cartilage of Mice (C57/Bl)." *J Nutr* 129, no. 10 (Oct 1999): 1891-5.
- Ohara, H., H. Matsumoto, K. Ito, K. Iwai, and K. Sato. "Comparison of Quantity and Structures of Hydroxyproline-Containing Peptides in Human Blood after Oral Ingestion of Gelatin Hydrolysates from Different Sources." *J Agric Food Chem* 55, no. 4 (Feb 21 2007): 1532-5.
- Shinaberger, C. S., S. Greenland, J. D. Kopple, D. Van Wyck, R. Mehrotra, C. P. Kovesdy, and K. Kalantar-Zadeh. "Is Controlling Phosphorus by Decreasing Dietary Protein Intake Beneficial or Harmful in Persons with Chronic Kidney Disease?". *Am J Clin Nutr* 88, no. 6 (Dec 2008): 1511-8.
- NICE-Guideline 2012, KDIGO-Guideline 2012

Which other products exist? ...

Protein wasting

= **RENAPRO[®]**

PD - solution contains glucose and generally provides CAPD patients with enough calories so that Renapro[®] is the product of choice. You should also use Renapro[®] for patients with proteinuria.

Energy wasting

= **RENAMIL[®]**

For pre-terminal patients undergoing a low protein diet.

Protein and energy wasting = **RENERGY[®]**

As a rule, haemodialysis patients require calories in addition to protein. Renergy[®] supplies both.

Guarantee the energy requirement

The formation of endogenous protein (muscle mass) requires energy. 35 kcal/ kg/ bodyweight is often not enough. Results of scientific studies suggest a requirement of 40-45 kcal/ kg/ bodyweight.

Weight gain needs time

But if no weight gain was achieved after 6 weeks or in cachexia (BMI <16) the protein biosynthesis may be disturbed, the body is adjusted on proteolysis.

This is measurable at low KIC levels (KIC = ketoiso-capronate): The KIC level has a switch function between ↑= protein biosynthesis and ↓= proteolysis. KIC is a degradative product of ketoglutaric acid and can be normalized with the supply of calciumketoglutarate (Time period: approx. 3 months).

Exclude a vitamin deficiency = **RENAVIT[®]**

Water-soluble vitamins are getting lost during each dialysis. Dialysis patients should not eat in parallel a big amount of vitamin-rich aliments like fruits or vegetables because of their high count of potassium. Renavit[®] contains all water-soluble vitamins equal to the demand of dialysis patients.

Check the status of zinc and selenium.

Date of information: 11-2016

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