

Ounce for ounce, not all ESRD supplements are created equal.

The purpose of protein supplementation is to provide sufficient amino acids to support tissue building and repair. The effectiveness of protein supplementation depends upon the amount of total protein intake and the amount of amino acids-peptides actually absorbed and utilized by the body. Intake and absorption are affected by digestibility, the concentration of nutrients per volume, ease of delivery, and quality of nutrients.

Pro-Stat® satisfies all of these criteria by providing the highest amount of the essential amino acids per liquid ounce, with a Net Protein Utilization (NPU) approximately twice that of meat or fish protein¹, and delivering it in an easy-to-administer and easy-to-consume liquid form. (NPU is an accepted method of measuring the retention of absorbed nitrogen in order to evaluate protein digestibility as well as the content of essential amino acids.) Pro-Stat's high NPU results not only from its amino acid profile but also because it is hydrolyzed (broken down into the elemental, absorbable component: amino acids-peptides).

Conditionally essential amino acids, such as Arginine, Glutamine, Glycine and Proline are also important for adult nutrition because of the body's inability to produce them in the amounts needed for wound-healing and hypermetabolism caused by stress from serious illness or trauma. Arginine², Glutamine³ and Glycine⁴ in particular have been found to improve wound healing, enhance immune function and optimize gut mucosal repair. Pro-Stat® provides almost twice as much of these conditionally essential amino acids as a comparable amount of whole egg protein¹. For more information visit www.pro-stat.info.

AMINO ACID AND CALORIE COMPARISON PER LIQUID OUNCE (30ml)

	Pro-Stat® RC	Nepro®	Novasource™ Renal*
Manufacturer	Medical Nutrition USA, Inc.	Ross	Novartis
Serving Size	30 mL (one oz.)	30 mL (one oz.)	30 mL (one oz.)
Protein/g	15	2.09	2.18
Calories	60	59.38	59.38
Fat/g	0	2.84	3.01
Carbohydrate/g	0	6.60	5.91
Vitamin B-1/mg	0.75	0.08	0.07
Vitamin B-2/mg	0.85	0.09	0.09
Vitamin B-3/mg	10	1.00	0.99
Vitamin B-5/mg	5	0.50	0.47
Vitamin B-6/mg	5	0.26	0.24
Vitamin B-12/mcg	3	0.30	0.30
Folic Acid/mcg	450	31.25	29.63
Biotin/mg	0.15	0.02	0.02
Vitamin C/mg	30	3.13	2.36
Sodium/mg	39.3	25.00	26.25
Potassium/mg	3.9	31.25	24.00
Phosphorus/mg	5.9	20.63	N/A
Zinc/mg	7.5	0.71	0.74
FOS/mg	475	462.50	0.00

¹Blackburn, G. L.: (1978) Criteria for Evaluation of Protein Quality in Patients, report presented at *American Society for Parenteral and Enteral Nutritional* Jul, Boston; and *American Dietetic Association*, Sep, San Antonio.

²Williams JZ, Abramad N, Barbul A.(2002) Effect of a specialized amino acid mixture on human collagen deposition. *Annals of Surger*. Sep; 236 (3): 369-375. PMID: 12192323.

³Smith RJ, Wilmore DW. (1990) Glutamine nutrition and requirements. *J Parenteral Enteral Nutr*. Jul-Aug; 14 (4 Suppl): 94S-99S. PMID: 2119461

⁴Souters PB, van de Poll MCG, van Gemert WG, Dejong CHC. (2004) Amino acid adequacy in pathophysiological states. *J. Nutr*. 134: 1575S-1582S.

*Based on manufacturer's published data, when prepared according to directions. Beneprotein® and ProCel® are not registered trademarks of Medical Nutrition USA, Inc.