

One Ounce



Ounce for ounce, not all protein 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® Profile™ provides the highest amount of the essential amino acids per liquid ounce with a Protein Digestibility Corrected Amino Acid Score (PDCAAS) of 100 and a Net Protein Utilization (NPU) approximately twice that of meat or fish protein¹, (NPU measures the retention of absorbed nitrogen in order to evaluate protein digestibility and amino acid content.) The high NPU results both from Pro-Stat's amino acid profile, which is rich in essential and conditionally essential amino acids, and because it is hydrolyzed (predigested) 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® Profile™ 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 (30 ml)

Amino Acid	Pro-Stat® Profile™	Beneprotein®*	ProNutra®*
Isoleucine	250 mg	88 mg	153 mg
Leucine	550 mg	215 mg	245 mg
Lysine	510 mg	173 mg	213 mg
Methionine & Cysteine	250 mg	92 mg	56 mg
Phenylalanine & Tyrosine	470 mg	120 mg	70 mg
Threonine	270 mg	80 mg	186 mg
Tryptophan	70 mg	38 mg	45 mg
Valine	320 mg	84 mg	142 mg
Histidine	180 mg	32 mg	41 mg
Total Essential Amino Acids Per Ounce* (30ml)	2,870 mg	922 mg	1,151 mg
Arginine	863 mg	NA	38 mg
Glycine	2717 mg	NA	45 mg
Proline	1495 mg	NA	142 mg
Glutamic Acid	1121 mg	NA	443 mg
Hydroxyproline	1414 mg	NA	NA
Total Protein Per Ounce* (30ml)	10 grams	1.5 grams	2.2 grams
Total Calories Per Ounce*	101 k/cal	6 k/cal	17.5 k/cal



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 ProNutra® are not registered trademarks of Medical Nutrition USA, Inc.

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Call 1-800-221-0308 for sampling and information on Pro-Stat.®

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Pro-Stat Profile™