

Life Lite



Clinical Applications

- Supports Healthy Body Composition*
- Supports Immune Health*
- Supports Normal Muscle Recovery Following Exercise*
- Supports Gastrointestinal Health*
- Contributes to Macro-Nutrition*

*Life Lite represents an extraordinary breakthrough in body composition/weight management functional food formulas. Our medical board of advisors' primary objective in researching and developing Life Lite was to find a pure source of quality whey protein that is free of genetically-engineered hormones (rBST and rBGH) which, though banned in other countries, are used in the United States dairy industry. There are growing concerns regarding the effects of these hormones, especially in early puberty.**

All 3rd Opinion Inc Formulas Meet or Exceed cGMP Quality Standards

Discussion

New Zealand Biosciences™ Proprietary Whey Protein Blend (NZ whey protein concentrate, L-glutamine, glycine, and taurine) is sourced from New Zealand, which is known for its highly strict dairy processing standards. Guaranteed 100% pure (hormone free), this high-biological-value whey protein concentrate contains a rich array of essential and non-essential amino acids. Whey protein is considered the “gold standard” of protein for serious athletes. Research suggests that it supports healthy body composition, retention of lean muscle mass, glucose metabolism, satiety, and gastrointestinal health.^[1-5] Its roles in the maintenance of blood pressure and blood lipid levels already within the normal range are also areas of interest.^[3,5] As a rich source of the sulfur-containing amino acids cysteine and methionine, whey protein can enhance immune function through intracellular conversion to glutathione.^[9] Whey protein also delivers high levels of naturally occurring bioactive immunoglobulins that are resistant to peptic digestion. Immunoglobulins from whey have been observed to support intestinal immunity and a healthy response to inflammation.^[3,4] Furthermore, whey protein has displayed lower allergenicity than casein.*^[6]

Glutamine and Glycine, in combination with the cysteine-rich whey protein, promote glutathione synthesis and combat free radicals. Glutamine, crucial in nitrogen metabolism, is important for replenishing amino acid stores, especially after exercise or stress.^[7,8] This amino acid aids in intestinal cell proliferation, thereby helping to preserve gut barrier function and intestinal health.^[8] Glycine, an inhibitory (calming) neurotransmitter, is vital as a constituent of collagen and a building block for other substances such as coenzyme-A, nucleic acids, creatine phosphate, purines, bile, and other amino acids.*

Taurine, as a derivative of sulfur-containing cysteine, has many healthful clinical applications, including the support of stable cell membranes, cardiovascular health, glucose tolerance, detoxification, and bile salt synthesis.*^[9]

Aminogen® is a patented, natural, plant-derived enzyme system. It promotes protein digestibility and amino acid absorption, thereby boosting nitrogen retention and aiding in the synthesis of muscle mass and strength, as well as promoting deep muscle recovery.*^[10]

Medium-Chain Triglycerides provide a rapidly absorbed, easily metabolized, and quick form of energy.

Beneficial Macronutrient Ratio In every serving, Life Lite provides 21 g of high-quality whey protein; 3-3.5 g of fat, including 0.5 g from medium-chain triglycerides; and 13-16 g of carbohydrate, including 8 g of fiber. This composition supports a healthy balance of macronutrients and fiber. High-fiber foods tend to slow the absorption of glucose into the bloodstream.^[14] Furthermore, both fiber and protein tend to increase feelings of satiety.*^[14,15]

Fructose Free Life Lite Vanilla contains evaporated cane juice and stevia in place of fructose. Life Lite Chocolate is free of both added sugar and stevia, and is sweetened only with monk fruit extract. Animal and human research suggests that consuming fructose-containing beverages increases visceral adiposity.^[16,17]



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Life Lite



Nutrition Facts

Serving Size 2 Scoops (about 45g)
Servings Per Container About 14

Amount Per Serving		Calories From Fat 35	
		% Daily Value*	
Total Fat	3.5g		5%
Saturated Fat	2g		10%
Cholesterol	45mg		15%
Sodium	230mg		10%
Potassium	230mg		7%
Total Carbohydrate	16g		5%
Dietary Fiber	8g		32%
Sugars	7g		
Protein	21g		
Vitamin A	0%	Vitamin C	2%
Calcium	8%	Iron	2%

Not a significant source of *trans* fat.
*Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs:

	Calories:	2,000	2,500
Total Fat	Less than	65g	80g
Saturated Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Potassium		3,500mg	3,500mg
Total Carbohydrate		300g	375g
Dietary Fiber		25g	30g

INGREDIENTS: New Zealand Biosciences™ proprietary whey protein blend (whey protein concentrate, taurine, L-glutamine, glycine), inulin (from chicory), dried cane syrup, natural flavors (no MSG), sunflower oil, medium-chain triglyceride oil, cellulose gum, xanthan gum, Aminogen® (proprietary plant enzyme blend), guar gum, sea salt, tripotassium citrate, and stevia leaf extract.

CONTAINS: Milk (whey protein concentrate).

 Aminogen® is a registered trademark of Triarco Industries. Aminogen® is protected under U.S. patent 5,387,422.



Directions

Mix two scoops (45 g) in 8-12 oz cold water and consume. Adjust amount of water according to thickness desired. May be used as a snack, a “rescue” food, an occasional meal replacement, or as directed by your healthcare practitioner.

Consult your healthcare practitioner prior to use. Individuals taking medication should discuss potential interactions with their healthcare practitioner. Do not use if tamper seal is damaged. The labeling on this product does not comply with California’s Proposition 65. Therefore, this product may not be sold in California.

Does Not Contain

Wheat, gluten, yeast, soy protein, fish, shellfish, peanuts, tree nuts, egg, artificial colors, artificial sweeteners, or artificial preservatives.

Typical Amino Acid Profile Per Serving:

Alanine	1,110 mg	Methionine	530 mg
Arginine	570 mg	Phenylalanine	710 mg
Aspartic Acid	2,330 mg	Proline	1,340 mg
Cysteine	590 mg	Serine	1,110 mg
Glutamic Acid	3,800 mg	Taurine	500 mg
Glycine	470 mg	Threonine	1,530 mg
Histidine	400 mg	Tryptophan	500 mg
Isoleucine	1,450 mg	Tyrosine	730 mg
Leucine	2,350 mg	Valine	1,320 mg
Lysine	1,910 mg		

References

- Hayes A, Cribb PJ. Effect of whey protein isolate on strength, body composition and muscle hypertrophy during resistance training. *Curr Opin Clin Nutr Metab Care*. 2008 Jan;11(1):40-44. [PMID: 18090657]
- Luhovyy BL, Akhavan T, Anderson GH. Whey proteins in the regulation of food intake and satiety. *J Am Coll Nutr*. 2007 Dec;26(6):704S-12S. [PMID: 18187437]
- Marshall K. Therapeutic applications of whey protein. *Altern Med Rev*. 2004 Jun;9(2):136-56. [PMID: 15253675]
- Souza GT, Lira FS, Rosa Neto JC, et al. Dietary whey protein lessens several risk factors for metabolic diseases: a review. *Lipids Health Dis*. 2012 Jun 7;11(1):67. [PMID: 22676328]
- Pal S, Ellis V. The chronic effects of whey proteins on blood pressure, vascular function, and inflammatory markers in overweight individuals. *Obesity (Silver Spring)*. 2010 Jul;18(7):1354-59. [PMID: 19893505]
- Lara-Villoslada F, Olivares M, Xaus J. The balance between caseins and whey proteins in cow’s milk determines its allergenicity. *J Dairy Sci*. 2005 May;88(5):1654-60. [PMID: 15829656]
- Castell L. Glutamine supplementation in vitro and in vivo, in exercise and in immunodepression. *Sports Med*. 2003;33(5):323-45. [PMID: 12696982]
- Walsh NP, Blannin AK, Robson PJ, et al. Glutamine, exercise and immune function. Links and possible mechanisms. *Sports Med*. 1998 Sep;26(3):177-91. [PMID: 9802174]
- Yatabe Y, Miyakawa S, Ohmori H, et al. Effects of taurine administration on exercise. *Adv Exp Med Biol*. 2009;643:245-52. [PMID: 19239155]
- Aminogen. Triarco Industries. <http://www.triarco.com/consumercenter/aminogen/>. Accessed July 3, 2012.
- El Khoury D, Cuda C, Luhovyy BL, et al. Beta glucan: health benefits in obesity and metabolic syndrome. *J Nutr Metab*. 2012;2012:851362. [PMID: 22187640]
- de Luis DA, de la Fuente B, Izaola O, et al. Randomized clinical trial with a inulin enriched cookie on risk cardiovascular factor in obese patients [in Spanish]. *Nutr Hosp*. 2010 Jan-Feb;25(1):53-59. [PMID: 20204256]
- Queenan KM, Stewart ML, Smith KN, et al. Concentrated oat beta-glucan, a fermentable fiber, lowers serum cholesterol in hypercholesterolemic adults in a randomized controlled trial. *Nutr J*. 2007 Mar 26;6:6. [PMID: 17386092]
- Nilsson AC, Ostman EM, Holst JJ, et al. Including indigestible carbohydrates in the evening meal of healthy subjects improves glucose tolerance, lowers inflammatory markers, and increases satiety after a subsequent standardized breakfast. *J Nutr*. 2008 Apr;138(4):732-39. [PMID: 18356328]
- Paddon-Jones D, Westman E, Mattes RD, et al. Protein, weight management, and satiety. *Am J Clin Nutr*. 2008 May;87(5):1558S-1561S. Review. [PMID: 18469287]
- Jürgens H, Haass W, Castañeda TR, et al. Consuming fructose-sweetened beverages increases body adiposity in mice. *Obes Res*. 2005 Jul;13(7):1146-56. [PMID: 16076983]
- Stanhope KL, Schwarz JM, Keim NL, et al. Consuming fructose-sweetened, not glucose-sweetened, beverages increases visceral adiposity and lipids and decreases insulin sensitivity in overweight/obese humans. *J Clin Invest*. 2009 May;119(5):1322-34. doi:10.1172/JCI37385. [PMID: 19381015]

***These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.**

