



Clinical Applications

- Supports Natural Detoxification Mechanisms*
- Supports Gastrointestinal Health*
- Supports a Balanced Cytokine Profile*

*LifeSupport is a comprehensive, fructose-free, low-allergy-potential functional food designed to provide "optimal cleansing." It features Vegan Protein Blend, NutriMedical's proprietary pea/rice protein blend, Aminogen® to facilitate protein absorption, and Quatrefolic®† for optimal folate utilization. In conjunction with a modified elimination diet, LifeSupport targets patients in need of gastrointestinal, hepatic, and healthy eicosanoid and cytokine metabolism support. This formula is suitable for vegans.**

All NutriMedical Formulas Meet or Exceed cGMP Quality Standards

Discussion

LifeSupport contains macro- and micronutrients, as well as a host of ingredients (some patented or proprietary) that support fatty acid metabolism, gastrointestinal health, and healthy eicosanoid and cytokine metabolism. Activated co-factors support mitochondrial energy production needed for biotransformation. This formula's ingredients inhibit phase I detoxification, up-regulate and support each phase II pathway, and provide antioxidant support.

Vegan Protein Blend is NutriMedical's proprietary blend of pea protein isolate and rice protein concentrate, L-glutamine, L-glycine, and taurine. Generation of glutathione and sulfation co-factors that are vital for phase II conjugation requires an array of amino acids. The combination of pea protein and rice protein achieves an amino acid score of 100%.

L-glutamine, crucial in nitrogen metabolism, is hepatoprotective, supports healthy intestinal cell proliferation, and plays a key role in the preservation of gut barrier function.^[1] **Glycine**, a building block for other amino acids, is needed for bile synthesis. **Taurine**, a derivative of sulfur-containing cysteine, is also important for synthesis of bile salts and helps stabilize cell membranes.

Ginger root, included to support the release of bile from the gallbladder, also acts at several sites to inhibit PGE(2) production.^[2] **Fiber blend (inulin from non-GMO chicory, beta glucans, oat fiber, corn bran)** provides fibers that favorably impact intestinal flora and the formation of short-chain fatty acids. Beta glucans and lignins impact the binding of bile acids. **MeadowPure™** organic flax seeds, which possess excellent oxidative stability, provide lignins and soluble fiber, as well as antioxidant activity, omega-3s, and alpha linolenic acid.^[3]

Ellagic acid (from pomegranate extract) prevents over-induction of CYP1A enzymes, works at the gene level to induce synthesis of glutathione-S-transferases and other phase II activities, binds directly to toxins, and protects DNA and hepatocytes.^[4] **Watercress** combines PEITC (a phase I enzyme inhibitor) with at least three phase II enzyme inducers: PEITC, 7-methylsulfinylheptyl ITC, and 8-methylsulfinyloctyl ITC.^[5] **Green Tea catechins** not only promote antioxidant activity, but also appear to act as modulators of phase I and phase II detoxification.^[6]

5-methyltetrahydrofolate (provided as Quatrefolic), methylcobalamin, betaine, and methylsulfonylmethane are present to support methylation. **Preventium®**, a patented form of potassium hydrogen d-glucarate, supports glucuronidation. Sulfation is supported by methylsulfonylmethane, alpha lipoic acid, and sodium sulfate. Acetylation is supported by **d-calcium pantothenate, pyridoxal-5'-phosphate, and magnesium**. Pyridoxal-5'-phosphate—along with folic acid, methylcobalamin, and glycine—all support amino acid conjugation and are vital for the detoxification of xenobiotic chemicals.

Bioflavonoids, quercetin, rutin, and curcumin reduce damaging free radicals and support healthy eicosanoid and cytokine metabolism.^[7,8] **N-acetyl cysteine** stimulates glutathione synthesis, enhances glutathione-S-transferase activity, and promotes detoxification.

This formula is designed to be used as part of a step approach cleanse in conjunction with a modified elimination plan.

***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.**



Supplement Facts

Serving Size: 2 Scoops (64 g)
Servings Per Container: 14

Amount Per Serving			Amount Per Serving			%Daily Value*		
Calories 230								
Calories from Fat 60								
			Amount Per Serving			%Daily Value*		
Total Fat		6 g						9%
Saturated Fat		0 g						0%
Trans Fat		0 g						
Polyunsaturated Fat		0.5 g						
Monounsaturated Fat		2.2 g						
Cholesterol		0 mg						0%
Total Carbohydrate		19 g						6%
Dietary Fiber		4 g						16%
Soluble Fiber		3 g						
Sugars		8 g						
Other Carbohydrate		6 g						
Protein		26 g						
Vitamin A (as mixed carotenoids)	2500 IU	50%	Iodine (as potassium iodide)	60 mcg	40%			
Vitamin C (as sodium ascorbate)	250 mg	417%	Magnesium (as Di-Magnesium Malate)	150 mg	38%			
Thiamin (as thiamin HCl)	15 mg	1000%	Zinc (TRAAACS® Zinc Glycinate Chelate)	10 mg	67%			
Riboflavin (as riboflavin 5' phosphate)	5 mg	294%	Selenium (as Selenium Glycinate Complex)	100 mcg	143%			
Niacin (as niacinamide and niacin)	40 mg	200%	Manganese (TRAAACS® Manganese Glycinate Chelate)	2 mg	100%			
Vitamin B6 (as pyridoxal 5' phosphate)	5 mg	250%	Chromium (TRAAACS® Chromium Nicotinate Glycinate Chelate)	60 mcg	50%			
Folate (as 5-methyltetrahydrofolate†)	200 mcg	50%	Molybdenum (TRAAACS® Molybdenum Glycinate Chelate)	35 mcg	47%			
Vitamin B12 (as methylcobalamin)	50 mcg	833%	Sodium	270 mg	11%			
Biotin	150 mcg	50%	Potassium	600 mg	17%			
Pantothenic Acid (as d-calcium pantothenate)	35 mg	350%	Ellagic Acid (as pomegranate extract)	250 mg	**			
Calcium (DimaCal® Di-Calcium Malate)	200 mg	20%	Choline (as choline bitartrate)	100 mg	**			
Phosphorus (as potassium phosphate)	130 mg	13%	Green Tea Extract (40% catechins)	82 mg	**			
MeadowPure™ (organic stabilized flaxseed complex)	5.6 g	**	Preventium® (as potassium d-glucarate)	250 mg	**			
Betaine (as trimethylglycine)	250 mg	**						
Lemon Bioflavonoids	250 mg	**						
Quercetin	250 mg	**						
Rutin	200 mg	**						
Curcumin	200 mg	**						
N-Acetyl-Cysteine	150 mg	**						
Ginger Root Powder	150 mg	**						
Methylsulfonylmethane	120 mg	**						
Sodium Sulfate	100 mg	**						
Watercress Herb Powder	100 mg	**						

Other Ingredients: Vegan Protein Blend (Proprietary Blend of Rice Protein Concentrate and Pea Protein Isolate, Aminogen®, L-Glutamine, Glycine, and Taurine), Evaporated Cane Juice, Cocoa Powder, Natural Flavors, Brown Rice Syrup Solids, Sunflower Oil, Medium Chain Triglycerides, Inulin Fiber (from Chicory), Sodium Chloride, Xanthan Gum, Guar Gum, Carrageenan, Potassium Citrate, Sodium Citrate, Stevia Leaf Extract.

DimaCal, TRAACS and the Albion Medallion design are registered trademarks of Albion Laboratories, Inc. Malates covered by U.S. Patent 6,706,904 and patents pending

Quatrefolic™ † Quatrefolic™ is a registered trademark of Gnosis S.p.A. Patents Pending.

Aminogen® is a Registered Trademark of Triarco Industries. Aminogen® is protected by U.S. patent No. 5,387,422.

Blend, shake, or briskly stir 2 level scoops (64 g) of LifeSupport into 8-12 ounces chilled, pure water, or amount for desired thickness, or as directed by your healthcare practitioner.

Cautions

Consult your healthcare practitioner before use. Keep out of reach of children. Avoid if allergic to any ingredient.

Typical Amino Acid Profile Per Serving:

Taurine	500 mg	Serine	1378 mg
Glycine	1181 mg	Aspartic Acid	2990 mg
Lysine	1872 mg	Phenylalanine	1430 mg
Valine	1453 mg	Tryptophan	107 mg
Leucine	2184 mg	Proline	1170 mg
Isoleucine	1170 mg	Methionine	286 mg
Cysteine	260 mg	Histidine	650 mg
Threonine	1014 mg	Arginine	2262 mg
Tyrosine	988 mg	Glutamine	4483 mg

References

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