

Resilience Detox Shake



Clinical Applications

- Supports Natural Detoxification Mechanisms*
- Supports Gastrointestinal Health*
- Supports a Balanced Cytokine Profile*
- Lactose-Free Vegan Protein*

***Resilience Detox Shake** is a comprehensive, monk-fruit-extract-sweetened, low-allergy-potential dietary supplement designed to support gastrointestinal (GI) function and balanced detoxification. It features Vegan Protein Blend, Resilience Health & Wellness's proprietary amino acid and pea/rice protein blend; Aminoger®, to facilitate protein absorption; phytonutrients; mineral amino acid chelates; and activated B vitamins, including Quatrefolic® and methylcobalamin. In conjunction with a modified elimination diet, Resilience Detox Shake addresses GI and hepatic function as well as eicosanoid balance and cytokine metabolism. This formula is suitable for vegans.**

All Resilience Health & Wellness Formulas Meet or Exceed cGMP Quality Standards

Discussion

Resilience Detox Shake is now sweetened with a natural, high-potency sweetener extracted from monk fruit. This generally recognized as safe (GRAS) monk-fruit extract offers a high-quality sweetness and flavor without the bitter aftertaste associated with some natural sweeteners.

Protein Metabolism

Vegan Protein Blend is Resilience Health & Wellness's proprietary blend of pea protein isolate and rice protein concentrate, L-glutamine, glycine, and taurine. Generation of glutathione and sulfation cofactors—vital for phase II conjugation—requires an array of amino acids. The combination of pea protein and rice protein, containing a complement of amino acids, achieves an amino acid score of 100%. Glutamine, a conditionally essential and versatile amino acid with two nitrogen moieties, is crucial to nitrogen metabolism and helps maintain healthy liver tissue and function.^[1,2] The amino acid glycine is needed for bile synthesis, phase II detoxification, and glutathione production. Taurine, a derivative of the sulfur-containing amino acid cysteine, is also important for synthesis of bile salts and helps stabilize cell membranes.*

Gastrointestinal Support

Ginger root, included to support healthy digestion such as the release of bile from the gallbladder, acts at several sites to moderate PGE(2) production and support the normal response to inflammation.^[3] Fiber (from inulin and flaxseeds) supports production of short-chain fatty acids as well as a healthy intestinal flora. **MeadowPure™**, an organic flaxseed complex, possesses excellent oxidative stability, supports antioxidant activity, and provides lignins, soluble fiber, and omega-3 and omega-6 essential fatty acids.^[4] **Glutamine** plays a key role in healthy intestinal cell proliferation and gut barrier integrity, immune function, and normal tissue healing.*^[1,2]

Detoxification Support

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.^[5,6] **Watercress** is a rich source of beta-phenylethyl isothiocyanate (PEITC)—a versatile compound found to inhibit phase I enzymes and induce the phase II enzymes associated with biotransformation and excretion of toxins. Watercress has been found to contain even stronger phase II inducers known as 7-methylsulfinylheptyl and 8-methylsulfinyloctyl isothiocyanates as well.^[7,8] **Green tea catechins** not only support antioxidant activity but also appear to act as modulators of phase I and phase II detoxification.^[9] **Choline** is present to support lipid metabolism in the liver and can be converted to betaine, a methyl donor.*^[10]

The active, bioavailable form of **B vitamins** (pyridoxal-5'-phosphate (B6), 5-methyltetrahydrofolate (folate), methylcobalamin (B12)) and glycine all support amino acid conjugation and are vital for the detoxification of xenobiotics and xenoestrogens. 5-methyltetrahydrofolate (5-MTHF), methylcobalamin, betaine, and **methylsulfonylmethane (MSM)** are present to support methylation and detoxification. 5-MTHF supports healthy folate nutrition, especially in individuals with variations in folate metabolism. In Resilience Detox Shake, 5-MTHF is provided as Quatrefolic® for enhanced stability, solubility, and bioavailability.*^[11]

Preventium®, a patented form of potassium hydrogen d-glucarate, supports glucuronidation. Sulfation is supported by **MSM** and **sodium sulfate**. Acetylation is supported by **d-calcium pantothenate**, pyridoxal-5'-phosphate, and magnesium. Several minerals in Resilience Detox Shake are provided as Albion® mineral chelates and TRAACS® mineral amino acid chelates for enhanced gastrointestinal absorption and bioavailability.*^[12]

Antioxidant Support and Cytokine Balance

Bioflavonoids, quercetin, rutin, and curcumin support antioxidant activity, counter free radicals, and support healthy eicosanoid and cytokine metabolism.^[13,14] Curcumin has a long history of use for its support of a normal, healthy response to inflammation.^[15] **N-acetylcysteine (NAC)** stimulates glutathione synthesis, enhances glutathione-S-transferase activity, and promotes detoxification.^[16] **Selenium**

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Resilience Detox Shake



Vanilla Delight Sugar- & Stevia-Free[‡]

Supplement Facts

Serving Size: 2 Scoops (about 53 g)
Servings Per Container: About 14

| Amount Per Serving | | %DV | Amount Per Serving | | %DV |
|--|-------------|------------------|---|--------|-----|
| Calories | 210 | | Sodium (from ingredients with naturally occurring sodium, sodium sulfate anhydrous, and sodium ascorbate) | 560 mg | 24% |
| Total Fat | 8 g | 10% [†] | Potassium (from tripotassium citrate and ingredients with naturally occurring potassium) | 455 mg | 10% |
| Saturated Fat | 2 g | 10% [†] | | | |
| Total Carbohydrate | 10 g | 4% [†] | | | |
| Dietary Fiber | 4 g | 14% | | | |
| Protein (from Pea Protein Isolate and Rice Protein Concentrate) | 26 g | | Stabilized Flavonoid | 5.6 g | ** |
| Vitamin A (as natural beta-carotene) | 750 mcg | 83% | Typical Alpha-Linolenic Acid Content | 1.28 g | ** |
| Vitamin C (as sodium ascorbate) | 250 mg | 278% | Typical Linoleic Acid Content | 392 mg | ** |
| Thiamin (as thiamine HCl) | 15 mg | 1250% | Pomegranate Extract (<i>Punica granatum</i>)(whole fruit)(30% punicalagins A+B and punicalicins A+B) | 400 mg | ** |
| Riboflavin (as riboflavin 5'-phosphate sodium) | 5 mg | 385% | Betaine Anhydrous (trimethylglycine) | 250 mg | ** |
| Niacin (as niacinamide and niacin) | 40 mg | 250% | Lemon Bioflavonoid Complex (<i>Citrus x limon</i>) (fruit peel)(25% bioflavonoids) | 250 mg | ** |
| Vitamin B6 (as pyridoxal 5'-phosphate) | 5 mg | 294% | Quercetin (as quercetin dihydrate from <i>Dimorphandra mollis</i>)(pod) | 250 mg | ** |
| Folate (as [6S]-5-methyltetrahydrofolate acid, glucosamine salt) ^{S1} | 340 mcg DFE | 85% | Potassium d-glucate ^{S3} | 250 mg | ** |
| Vitamin B12 (as methylcobalamin) | 50 mcg | 2083% | Rutin (from <i>Sophora japonica</i>)(bud) | 200 mg | ** |
| Biotin | 150 mcg | 500% | Turmeric Extract (<i>Curcuma longa</i>)(rhizome)(95% total curcuminoids complex, including curcumin, curcuminoids, and volatile oils)(86% curcuminoids)(65% curcumin) ^{S4} | 200 mg | ** |
| Pantothenic Acid (as d-calcium pantothenate) | 35 mg | 700% | N-Acetyl-L-Cysteine | 150 mg | ** |
| Choline (as choline bitartrate) | 100 mg | 18% | Ginger (<i>Zingiber officinale</i>)(rhizome) | 150 mg | ** |
| Calcium (as dicalcium malate ^{S2} and ingredients with naturally occurring calcium) | 225 mg | 17% | Methylsulfonylmethane (MSM) | 120 mg | ** |
| Iron (naturally occurring) | 5 mg | 28% | Sodium Sulfate Anhydrous | 100 mg | ** |
| Iodine (as potassium iodide) | 60 mcg | 40% | Watercress (<i>Nasturtium officinale</i>)(aerial parts) | 100 mg | ** |
| Magnesium (as di-magnesium malate) ^{S2} | 140 mg | 33% | Green Tea Aqueous Extract (<i>Camellia sinensis</i>)(leaf) (80% polyphenols, 60% catechins, 30% EGCG, 6% caffeine) | 82 mg | ** |
| Zinc (as zinc bisglycinate chelate) ^{S2} | 10 mg | 91% | | | |
| Selenium (as selenium glycinate complex) ^{S2} | 100 mcg | 182% | | | |
| Manganese (as manganese bisglycinate chelate) ^{S2} | 2 mg | 87% | | | |
| Chromium (as chromium nicotinate glycinate chelate) ^{S2} | 60 mcg | 171% | | | |
| Molybdenum (as molybdenum glycinate chelate) ^{S2} | 35 mcg | 78% | | | |

Other Ingredients: Sunflower oil, natural flavors (no MSG), medium-chain triglyceride oil, taurine, glycine, cellulose gum, xanthan gum, fungal proteases^{S5}, L-glutamine, monk fruit extract, guar gum, and silica.



S1. Quatrefolic[®] is a registered trademark of Gnosis S.p.A. Produced under US Patent 7,947,662.



S2. Albion[®], DimaCal[®], TRAACS[®], and the Albion Gold Medallion[®] are registered trademarks of Albion Laboratories, Inc. Malates covered by US patent 6,706,904.

S3. Preventum[®] is a registered trademark of Applied Food Sciences, LLC. (US patents 4,845,123, 5,364,644, 5,561,160).

S4. BCM-95[®] is an exclusivity licensed registered trademark to Arjuna Natural Pvt Ltd. Protected under US patents 7,883,728; 7,736,679; and 7,879,373.



S5. AMINOGEN[®] is a registered trademark of Innophos Nutrition, Inc. AMINOGEN[®] is protected under U.S. patent 5,387,422.

Directions

Blend, shake, or briskly stir 2 level scoops (53 g) into 10-12 ounces chilled, pure water (or mix amount for desired thickness) and consume once daily, or use as directed by your healthcare professional.

Consult your healthcare professional prior to use. Individuals taking medication should discuss potential interactions with their healthcare professional. Do not use if tamper seal is damaged.

Formulated To Exclude

Wheat, gluten, yeast, soy, animal and dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, and artificial preservatives.

Typical Amino Acid Profile Per Serving:

| | | | |
|---------------|----------|---------------|----------|
| Alanine | 1,280 mg | Methionine | 330 mg |
| Arginine | 2,580 mg | Phenylalanine | 1,630 mg |
| Aspartic Acid | 3,400 mg | Proline | 1,340 mg |
| Cysteine | 300 mg | Serine | 1,570 mg |
| Glutamic Acid | 4,990 mg | Threonine | 1,160 mg |
| Glycine | 1,720 mg | Taurine | 500 mg |
| Histidine | 740 mg | Tryptophan | 300 mg |
| Isoleucine | 1,330 mg | Tyrosine | 1,130 mg |
| Leucine | 2,490 mg | Valine | 1,490 mg |
| Lysine | 2,120 mg | | |

[‡]This formula is not a low-calorie dietary supplement. Please see the Supplement Facts panel for more details.

References

- Smith RJ, Wilmore DW. Glutamine nutrition and requirements. *JPEN J Parenter Enteral Nutr.* 1990 Jul-Aug;14(4 Suppl):94S-99S. Review. [PMID: 2119461]
- Lacey JM, Wilmore DW. Is glutamine a conditionally essential amino acid? *Nutr Rev.* 1990 Aug;48(8):297-309. Review. [PMID: 2080048]
- Lantz RC, Chen GJ, Sarihan M, et al. The effect of extracts from ginger rhizome on inflammatory mediator production. *Phytomedicine.* 2007 Feb;14(2-3):123-28. [PMID: 16709450]
- Adolphe JL, Whiting SJ, Juurlink BH, Thorpe LU, Alcorn J. Health effects with consumption of the flax lignan secoisolariciresinol diglucoside. *Br J Nutr.* 2010 Apr;103(7):929-38. Review. [PMID: 20003621]
- Barch DH, Rundhaugen LM, Stoner GD, et al. Structure-function relationships of the dietary anticarcinogen ellagic acid. *Carcinogenesis.* 1996 Feb;17(2):265-9. [PMID: 8625448]
- Girish C, Koner BC, Jayanthi S, et al. Hepatoprotective activity of picroliol, curcumin and ellagic acid compared to silymarin on paracetamol induced liver toxicity in mice. *Fundam Clin Pharmacol.* 2009 Dec;23(6):735-45. [PMID: 19656205]
- Rose P, Faulkner K, Williamson G, et al. 7-Methylsulfinylheptyl and 8-methylsulfinyloctyl isothiocyanates from watercress are potent inducers of phase II enzymes. *Carcinogenesis.* 2000 Nov;21(11):1983-8. [PMID: 11062158]
- Hofmann T, Kuhnert A, Schubert A, et al. Modulation of detoxification enzymes by watercress: in vitro and in vivo investigations in human peripheral blood cells. *Eur J Nutr.* 2009 Dec;48(8):483-91. [PMID: 19636603]
- Akhlaghi M, Bandy B. Dietary green tea extract increases phase 2 enzyme activities in protecting against myocardial ischemia-reperfusion. *Nutr Res.* 2010 Jan;30(1):32-39. [PMID: 20116658]
- Linus Pauling Institute. <http://lpi.oregonstate.edu/infocenter/othernuts/choline/>. Accessed May 8, 2012.
- Quatrefolic. <http://www.quatrefolic.com/>. Accessed May 8, 2012.
- Albion. <http://www.albionminerals.com/>. Accessed May 8, 2012.
- Garg R, Gupta S, Maru GB. Dietary curcumin modulates transcriptional regulators of phase I and phase II enzymes in benzo[a]pyrene-treated mice: mechanism of its anti-initiating action. *Carcinogenesis.* 2008 May;29(5):1022-32. [PMID: 18321868]
- Amália PM, Possa MN, Augusto MC, et al. Quercetin prevents oxidative stress in cirrhotic rats. *Dig Dis Sci.* 2007 Oct;52(10):2616-21. [PMID: 17431769]
- Jurenka JS. Anti-inflammatory properties of curcumin, a major constituent of *Curcuma longa*: a review of preclinical and clinical research. *Altern Med Rev.* 2009 Jun;14(2):141-53. Review. Erratum in: *Altern Med Rev.* 2009 Sep;14(3):277. [PMID: 19594223]
- Kelly GS. Clinical applications of N-acetylcysteine. *Altern Med Rev.* 1998 Apr;3(2):114-27. Review. [PMID: 9577247]

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