



# 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; Aminogen®, 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-methylsulfinyheptyl 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

> \*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.

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Resilience Detox Shake

# Creamy Chocolate Sugar- & Stevia-Free<sup>‡</sup>



# Supplement Facts

|  | Amount Per Serving  | %DV              | Amount Per Serving  |        | %DV |
|--|---------------------|------------------|---|--------|-----|
| Calories   | 210                 |                  | Sodium (from ingredients with naturally occurring sodium, sodium  | 580 mg | 25% |
| Total Fat  | 8 g                 | 10% <sup>†</sup> | sulfate anhydrous, and sodium ascorbate)  |        |     |
| Saturated Fat  | 2 g                 | 10% <sup>†</sup> | Potassium (from tripotassium citrate and ingredients with naturally   | 505 mg | 11% |
| Total Carbohydrate   | 10 g                | 4%†              | occurring potassium)  |        |     |
| Dietary Fiber  | 4 g                 | 14%              | Stabilized Flaxseed   | 5.6 g  | **  |
| Protein (from Pea Protein Isolate and Rice Protein Co                            |                     |                  | Typical Alpha-Linolenic Acid Content  | 1.28 a | **  |
| /itamin A (as natural beta-carotene)   | 750 mcg             | 83%              | Typical Linoleic Acid Content   | 392 mg | **  |
| Vitamin C (as sodium ascorbate)  | 250 mg              | 278%             | Pomegranate Extract ( <i>Punica granatum</i> )(whole fruit)(30% punicalagins A+B and punicalins A+B)  | 400 mg | **  |
| Thiamin (as thiamine HCI)  | 15 mg               | 1250%            |   |        |     |
| Riboflavin (as riboflavin 5'-phosphate sodium)                                   | 5 mg                | 385%             | Betaine Anhydrous (trimethylglycine)  | 250 mg | **  |
| Viacin (as niacinamide and niacin)   | 40 mg               | 250%             | Lemon Bioflavonoid Complex (Citrus × limon)   | 250 mg | **  |
| /itamin B6 (as pyridoxal 5'-phosphate)   | 5 mg                | 294%             | (fruit peel)(25% bioflavonoids)   |        |     |
| Folate (as [6S]-5-methyltetrahydrofolic acid,<br>plucosamine salt) <sup>S1</sup> | 340 mcg DFE         | 85%              | Quercetin<br>(as quercetin dihydrate from <i>Dimorphandra mollis</i> )(pod)   | 250 mg | **  |
| /itamin B12 (as methylcobalamin)   | 50 mcg              | 2083%            | Potassium d-glucarate <sup>s3</sup>   | 250 mg | **  |
| Biotin   | 150 mca             | 500%             | Rutin (from Sophora japonica)(bud)  | 200 mg | **  |
| Pantothenic Acid (as d-calcium pantothenate)                                     | 35 mg               | 700%             | Turmeric Extract ( <i>Curcuma longa</i> )(rhizome)(95% total curcuminoids complex, including curcumin, curcuminoids, and volatile oils)(86% curcuminoids)(65% curcumin) <sup>S4</sup> | 200 mg | **  |
| Choline (as choline bitartrate)  | 100 mg              | 18%              |   |        |     |
| Calcium (as dicalcium malate <sup>s2</sup> and                                   | 225 mg              | 17%              | N-Acetyl-L-Cysteine   | 150 mg | **  |
| ngredients with naturally occurring calcium)                                     |                     |                  | Ginger (Zingiber officinale)(rhizome)   | 150 ma | **  |
| ron (naturally occurring)  | 5 mg                | 28%              | Methylsulfonylmethane (MSM)   | 120 ma | **  |
| odine (as potassium iodide)  | 60 mcg              | 40%              | Sodium Sulfate Anhydrous  | 100 ma | **  |
| Aagnesium (as di-magnesium malate) <sup>S2</sup>                                 | 140 mg              | 33%              | Watercress (Nasturtium officinale)(aerial parts)  | 100 mg | **  |
| linc (as zinc bisglycinate chelate) <sup>S2</sup>                                | 10 mg               | 91%              | Green Tea Aqueous Extract (Camellia sinensis)(leaf)   | 82 ma  | **  |
| Gelenium (as selenium glycinate complex) <sup>S2</sup>                           | 100 mcg             | 182%             | (80% polyphenols, 60% catechins, 30% EGCG, 6% caffeine)   | 9      |     |
| Aanganese (as manganese bisglycinate chelate) <sup>S2</sup>                      | 2 mg                | 87%              |   |        |     |
| Chromium (as chromium nicotinate glycinate chelate)                              | <sup>2</sup> 60 mcg | 171%             | † Percent Daily Values (DV) are based on a 2,000 calorie diet.  ** Daily Value not established.   |        |     |
| Molybdenum (as molybdenum glycinate chelate) <sup>S2</sup>                       | 35 mcg              | 78%              |   |        |     |

Other Ingredients: Cocca powder, natural flavors (no MSG), sunflower oil, medium-chain triglyceride oil, taurine, glycine, cellulose gum, xanthan gum, fungal proteases<sup>sz</sup>, monk fruit extract, L-glutamine, guar gum, and silica.



LLC, (US patents 4.845,123, 5.364,644, 5.561,160).

S1. Quatrefolic® is a registered trademark of Quatrefolic Gnosis S.p.A. Produced under US Patent

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.



are registered trademarks of Albion Laboratories, Inc. Malates covered by US patent 6,706,904.

S5. AMINOGEN® is a registered trademark of Innophos Nutrition, Inc. AMINOGEN® is protected under U.S. patent **Directions** 

Blend, shake, or briskly stir 2 level scoops (57 g) into 10-12 ounces of 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.

1,280 mg

3.400 mg 300 mg Phenylalanine

1.630 ma

1,530 mg 1,340 mg 1,570 mg 1,160 mg 500 mg 300 mg 1,130 mg

Typical Amino Acid Profile Per Serving:

Arginine

Aspartic Acid

Glutamic Acid

7.947.662. S2. Albion®, DimaCal®, TRAACS®, and the Albion Gold Medallion®

**AMINOGEN**°

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

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