# ReNew

## **Clinical Applications**

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

**ReNew** is a comprehensive, fructose-free, low-allergy–potential dietary supplement designed to support gastrointestinal (GI) function and balanced detoxification. It features Vegan Protein Blend, Inspired Health's proprietary amino acid and pea/rice protein blend; Aminoger<sup>®</sup>, to facilitate protein absorption; phytonutrients; mineral amino acid chelates; and activated B vitamins, including Quatrefolic<sup>®†</sup> and methylcobalamin. In conjunction with a modified elimination diet, ReNew addresses GI and hepatic function as well as eicosanoid balance and cytokine metabolism. This formula is suitable for vegans.\*

All Inspired Health LLC. Formulas Meet or Exceed cGMP Quality Standards

### Discussion

Inspired

**ReNew** 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 cofactors support mitochondrial energy production needed for biotransformation and detoxification. This formula's ingredients help moderate phase I detoxification, upregulate and support phase II pathways, and provide antioxidant support as well.\*

#### Protein Metabolism

Vegan Protein Blend is Inspired Health'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.<sup>[1,2]</sup> 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 including the release of bile from the gallbladder, acts at several sites to moderate PGE(2) production and support the normal response to inflammation.<sup>[3]</sup> 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.<sup>[4]</sup> **Glutamine** plays a key role in healthy intestinal cell proliferation and gut barrier integrity, immune function, and normal tissue healing.<sup>\*(1,2]</sup>

#### 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.<sup>[5,6]</sup> 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 was found to contain even stronger phase II inducers known as 7-methylsulfinyheptyl and 8-methylsulfinyloctyl isothiocyanates as well.<sup>[7,8]</sup> Green tea catechins not only support antioxidant activity but also appear to act as modulators of phase I and phase II detoxification.<sup>[9]</sup> Choline is present to support lipid metabolism in the liver and can be converted to betaine, a methyl donor.<sup>\*(10]</sup>

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 those with variations in folate metabolism. In ReNew, 5-MTHF is provided as Quatrefolic<sup>®</sup> for enhanced stability, solubility, and bioavailability.<sup>\*[11]</sup>

**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 ReNew are provided as Albion® mineral chelates and TRAACS® mineral amino acid chelates for enhanced gastrointestinal absorption and bioavailability.\*<sup>(12)</sup>

Antioxidant Support and Cytokine Balance

**Bioflavonoids, quercetin, rutin,** and **curcumin** support antioxidant activity, counter free radicals, and support healthy eicosanoid and cytokine metabolism.<sup>[13,14]</sup> Curcumin has a long history of use for its support of a normal, healthy response to inflammation.<sup>[16]</sup> **N-acetyl-cysteine (NAC)** stimulates glutathione synthesis, enhances glutathione-S-transferase activity, and promotes detoxification.<sup>[16]</sup> **Selenium glycinate** provides support for glutathione metabolism and antioxidant protection.\*

ReNew provides an array of nutrients that supports gastrointestinal health; detoxification and antioxidant mechanisms; and a normal, healthy response to inflammation and cytokine balance. This formula is designed to be used as part of a step-approach cleanse in conjunction with a modified elimination plan.\*

ReNew

\*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.

# Creamy Chocolate

Servings Per Container: About 14			Amount D	Amount Per Servina	
	, , , , , , , , , , , , , , , , , , ,	%DV			%DV
Calories Fotal Fat	230 8 g	10%†	Molybdenum (as molybdenum glycinate chelate) <sup>52</sup> Sodium (from ingredients with naturally occurring sodium.	35 mcg	78% 25%
Saturated Fat	2 0	10%	sodium (irom ingredients with naturally occurring sodium, sodium sulfate anhydrous, and sodium ascorbate)	580 mg	20%
Total Carbohydrate	<u> </u>	7%†	Potassium (from tripotassium citrate and inoredients with	505	
Dietary Fiber	18 g 6 a	21%	naturally occurring potassium)	505 mg	119
Total Sugars	5 a	21%			
Includes 5g Added Sugars	ъÿ	10%	Stabilized Flaxseed	5.6 g	
Protein (from Pea Protein Isolate and Rice Protein Concer	itrate) 26 g	1076	Typical Alpha-Linolenic Acid	1.28 g	••
fitamin A (as natural beta-carotene)	750 mca	83%	Typical Linoleic Acid	392 mg	**
fitamin C (as sodium ascorbate)	250 mg	278%	Pomegranate Extract (Punica granatum)(whole fruit)(30% punicalagins A+B and punicalins A+B)	400 mg	
Thiamin (as thiamine HCI)	15 mg	1250%	Betaine Anhydrous (trimethylolycine)	250 ma	
Riboflavin (as riboflavin 5'-phosphate sodium)	5 mg	385%	Lemon Bioflavonoid Complex ( <i>Citrus × limon</i> )	250 mg	
Viacin (as niacinamide and niacin)	40 mg	250%	(fruit peel)(25% bioflavonoids)	200 mg	
/itamin B6 (as pyridoxal 5'-phosphate)	5 mg	294%	Quercetin	250 ma	
olate (as 16S1-5-methyltetrahydrofolic acid.	340 mca DFE	85%	(as quercetin dihydrate from Dimorphandra mollis)(pod)		
glucosamine salt) <sup>s1</sup>			Potassium d-glucarate <sup>83</sup>	250 mg	
/itamin B12 (as methylcobalamin)	50 mcg	2083%	Rutin (from Sophora japonica)(bud)	200 mg	**
Biotin	150 mcg	500%	Turmeric Extract (Curcuma longa)(rhizome)(95% total	200 mg	**
Pantothenic Acid (as d-calcium pantothenate)	35 mg	700%	curcuminoids complex, including curcumin, curcuminoids, and		
Choline (as choline bitartrate)	100 mg	18%	volatile oils)(86% curcuminoids)(65%) N-Acetyl-L-Cysteine	150 ma	
Calcium (as dicalcium malate <sup>s2</sup> and	220 mg	17%	Ginger (Zingiber officinale)(rhizome)	150 mg	
ngredients with naturally occurring calcium)				120 mg	
ron (naturally occurring)	6 mg	33%	Methylsulfonylmethane (MSM) Sodium Sulfate Anhydrous	120 mg	
odine (as potassium iodide)	60 mcg	40%	Watercress (Nasturtium officinale)(aerial parts)	100 mg	**
Magnesium (as di-magnesium malate)≌	140 mg	33%	Green Tea Aqueous Extract (Camellia sinensis)(leaf)	82 mg	**
Zinc (as zinc bisglycinate chelate) <sup>s2</sup>	10 mg	91%	(80% polyphenols, 60% catechins, 30% EGCG, 6% caffeine)	oz my	
Selenium (as selenium glycinate complex) <sup>se</sup>	100 mcg	182%			
Manganese (as manganese bisglycinate chelate) <sup>se</sup>	2 mg	87%	Percent Daily Values (DV) are based on a 2,000 calorie diet. ** Daily Value not established.		

### Directions

Blend, shake, or briskly stir 2 level scoops (62 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.

Other Ingredients: Dried cane syrup, cocoa powder, natural flavors (no fungal proteases<sup>55</sup>, stevia leaf extract, L-glutamine, 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. Preventium® is a registered trademark of Applied Food Sciences. LLC, (US patents 4.845.123, 5.364.644, 5.561.160)

S4. BCM-95<sup>®</sup> 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.

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						

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