

# Madetox

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Madetox



## Clinical Applications

- Source of antioxidants and protein for the maintenance of good health
- Digestive enzyme to help body to digest and metabolize carbohydrates, fats and proteins
- Helps to prevent Niacin, Biotin, Chromium, Pantothenic acid, Riboflavin, Selenium, Thiamine, Vitamin B6, Vitamin B12 and Vitamin C deficiencies
- Helps in wound healing, connective tissue formation and red blood cell formation
- Helps in the development and maintenance of bones, cartilage, teeth, gums
- Provides support for healthy glucose metabolism and liver function
- Helps to maintain healthy skin, immune and thyroid gland function
- Source of vitamin A to help maintain good health, eyesight, skin, membranes and immune function
- Source of vitamin A to help in the development and maintenance of bones, teeth and night vision
- Source of amino acids involved in muscle protein synthesis
- Assists in the building of lean muscle [tissue/mass] when combined with regular [weight/resistance], training and a healthy balanced diet

## Discussion

**Madetox** 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 Made by Dr. Drobot'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-methylsulfinylheptyl 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 Madetox, 5-MTHF is provided as Quatrefolic® 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 Madetox 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>[15]</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.\*

Madetox 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.\*

\*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.

# Chocolate

## Medicinal Ingredients per scoop)

Betaine	125 mg
Choline choline bitartrate)	50 mg
Quercetin Quercetin dehydrate)	125 mg
Rutin	100 mg
Niacinamide	15 mg
Biotin	75 mcg
Calcium Dicalcium malate)	100 mg
Green tea extract <i>Camellia sinensis</i> , Leaf - 1.024 1 42.0 mg)	41 mg 2.46 mg Caffeine,
30% Epigallocatechin 3-gallate, 60% Catechins	24.6 mg
Catechins, 6% Caffeine, 12.3 mg Epigallocatechin 3-gallate	
Chromium Chromium hydrolyzed vegetable protein HVP) chelate)	30 mcg
Citrus bioflavonoids	31.3 mg
Lemon <i>Citrus limon</i> , Fruit peel)	90 mg
Pantothenic acid D-Pantothenic acid, Calcium-d-pantothenate)	17.5 mg
Folate 6s)-5-Methyltetrahydrofolic acid, glucosamine salt)	100 mcg
Protease Fungal protease)	150 mg 3750 FCC HUT)
Iodine Potassium iodide)	30 mcg
Vitamin C L-Ascorbic acid, Sodium ascorbate)	125 mg
L-Glutamine	87.5 mg
Flaxseed <i>Linum usitatissimum</i> , seed)	2.8 g
Magnesium Dimagnesium malate)	70 mg
Manganese Manganese hydrolyzed vegetable protein HVP) Chelate)	1 mg
MSM Methylsulfonylmethane, Dimethyl sulfone)	60 mg
Molybdenum Molybdenum hydrolyzed vegetable protein HVP) Chelate)	17.5 mcg
N-Acetyl-L-cysteine	75 mg
Niacin	5 mg
Pea Protein	15 g
Potassium hydrogen D-glucarate	125 mg
Riboflavin Riboflavin 5-phosphate sodium)	2.5 mg
Selenium Selenium hydrolyzed vegetable protein HVP) Chelate)	50 mcg
Thiamine Thiamine hydrochloride)	7.5 mg
Vitamin B12 Methylcobalamin)	25 mcg
Vitamin B6 Pyridoxal 5-phosphate Calcium salt)	2.5 mg
Zinc Zinc bisglycinate)	5 mg
Ginger <i>Zingiber officinale</i> , Rhizome)	75 mg
beta-Carotene	750 mcg

## Non-Medicinal Ingredients

Cellulose gum, Chocolate flavour, Cocoa Powder, Corn Starch Modified, Corn syrup solids, Curcumin, Dicalcium phosphate, Flavour, Glycerol triacetate, Glycine, Guar Gum, Gum Arabic, Maltodextrin, Medium chain triglycerides, Mixed Tocopherols concentrate, Potassium citrate monohydrate, Punica Granatum Fruit Extract, Rice protein concentrate, Silicon dioxide, Sodium sulfate, Stevioside, Sucrose, Sunflower Oil, Taurine, Watercress leaf, Xanthan Gum, dl-alpha-Tocopherol.

\*HVP = hydrolyzed vegetable protein

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## Recommendd Dose

Adults: Take 2 scoops once a day. Mix 2 scoops with 250-350 mL of water or other beverage immediately before consumption once daily with food and two hours before or after taking other medications. Store in a light-resistant container. Consult a healthcare practitioner for use beyond 6 weeks.

Consult a health care practitioner prior to use if you are pregnant or breastfeeding, if you have diabetes or difficulty swallowing, if you have an iron deficiency, kidney stones or kidney disease, gallstones or a bile duct obstruction, if you have stomach ulcers or excess stomach acid, if you have a liver disorder, liver disease or if you develop symptoms of liver trouble (such as abdominal pain, dark urine or jaundice). Consult a health care practitioner prior to use if you have a gastrointestinal lesion/ulcer, are taking an anticoagulant/ blood thinners, an anti-inflammatory or if you are having surgery. Consult a health care practitioner immediately if you experience chest pain, vomiting, or difficulty swallowing or breathing after taking this product. Consult a health care practitioner prior to use if you are experiencing a sudden change in bowel habits that has persisted for more than two weeks, undiagnosed rectal bleeding, have failed to defecate following the use of a laxative product. Consult a health care practitioner prior to use if you have symptoms such as abdominal pain, nausea, vomiting, or fever (as these could be signs of abnormal constrictions of the gastrointestinal tract, disease of the oesophagus, and/or the superior opening of the stomach (cardia), potential or existing intestinal blockage, paralysis of the intestine, megacolon, faecal impaction, inflamed bowel or appendicitis). Consult a health care practitioner prior to use if you are taking medications which may inhibit peristaltic movement (i.e. opioids, loperamide). If you are taking prescription medication, consult a healthcare practitioner prior to use as citrus bioflavonoids may alter the effectiveness of these medications. If you are taking antibiotics and/or nitroglycerin, do not use this product. Hypersensitivity/allergy has been known to occur; in which case, discontinue use. Some people may experience mild and temporary gastrointestinal bloating, gas, constipation or indigestion.