

BROAD SPECTRUM TOXIN BINDING FORMULA*

Supplement Facts

Serving Size: 4 Capsules
Servings Per Container: 30

	Amount Per Serving	%DV
Activated Charcoal (from coconut shells)	400 mg	**
Bentonite Clay	400 mg	**
Chlorella (<i>Chlorella vulgaris</i>) (broken cell wall)	400 mg	**
<i>Saccharomyces boulardii</i> (supplying 8+ billion CFUs)	400 mg	**
Probiotic Binder Blend	29 mg	**
<i>Lactobacillus rhamnosus</i>	2.7+ billion CFUs	
<i>Lactobacillus casei</i>	2.7+ billion CFUs	
<i>Lactobacillus plantarum</i>	2.7+ billion CFUs	

** Daily Value (DV) not established.

Other Ingredients: Hypromellose (capsule), L-leucine, silicon dioxide.

Does not contain gluten.

SUGGESTED USE: 4 CAPSULES PER DAY, WITH OR WITHOUT FOOD, OR AS DIRECTED BY YOUR HEALTHCARE PRACTITIONER.

TAKE AT LEAST ONE HOUR APART FROM PRESCRIPTION MEDICATIONS.

WARNING: IF YOU ARE TAKING MEDICATION, HAVE A MEDICAL CONDITION OR AN UPCOMING MEDICAL PROCEDURE, OR ARE PREGNANT OR NURSING, CONSULT A PHYSICIAN BEFORE USING. IF ADVERSE REACTIONS OCCUR, DISCONTINUE USE & CONSULT YOUR HEALTHCARE PRACTITIONER.

- Comprehensive all-in-one support for metals, molds & mycotoxins.*
- Designed for ease in flexible dosing and titration protocols.*
- Clinically researched ingredients include targeted probiotics blend.*
- With activated charcoal from coconut shells, pure bentonite clay, and broken cell *Chlorella vulgaris*.*

ProBind Select™ is a state-of-the-art toxin binding formula featuring a potent blend of well researched, safe, natural toxin binding ingredients. Formulated by practicing functional medicine clinicians, **ProBind Select™** is provided in a conveniently dosed capsule to simplify titration and support patient compliance.

Toxic substances are escorted out of the body via the organs of elimination. Water soluble toxins and harmful metabolic waste products generally exit via the skin (sweat) and the urinary tract. Fat soluble toxins and heavy metals are eliminated through the digestive tract after being processed by the liver and sequestered in bile. The binders in **ProBind Select™** are natural substances which can adhere to toxins in the gut, facilitating their excretion.

Binders are needed to complete the job of detoxification because many metals and dangerous fat soluble toxins which journey from the liver to the colon *never leave the body*. Instead, these substances are inadvertently reabsorbed through the intestinal wall and returned to the bloodstream. Binders such as the chlorella, charcoal, clay, and lactic acid probiotics contained in **ProBind Select™** have been shown to capture numerous tenacious metals, molds, and toxins, notably bacterial endotoxins and mycotoxins (secondary metabolites produced by molds and fungi). Binders have been studied to help reduce inflammation, minimize unpleasant detox symptoms, calm digestive upset, and reduce Herxheimer reactions in patients undergoing antimicrobial treatment. Binders may be prescribed for issues such as parasitic infections, coinfections, or cognitive impairment from toxicity. Individuals with environmental exposures to heavy metals, molds, food-borne mycotoxins, and other deleterious substances may benefit from including binders in their functional medicine and detoxification protocols, as recommended by their healthcare practitioner.

ACTIVATED CHARCOAL is recognized as an effective, non-specific binding agent, used since ancient times and in modern emergency medicine as a first line antidote for acute poisoning. Produced by the charring of plant material at extreme heat in the absence of oxygen, activated charcoal is a fine black powder consisting of porous carbon molecules with adsorbent properties. Activated charcoal has been shown to bind a several heavy metals, numerous mycotoxins including the deadly *trichothecenes-2* (a byproduct of fungal *Fusarium* growth on wheat and corn), and endocrine disruptors such as atrazine, certain xenoestrogens, Bisphenol A (BPA), and phthalates. The activated charcoal in **ProBind Select™** is made from natural coconut shells.

BENTONITE CLAY has been studied in both animals and humans to support the binding to and elimination of a wide spectrum of toxins, notably heavy metals, pharmaceutical drugs, and mycotoxins. Specific mycotoxins which bentonite binds to include

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aflatoxin (produced by *Aspergillus* species and found in contaminated peanuts, tree nuts, and corn), ochratoxin (found in coffee and cereals), fumonisin (present in corn and corn based products), and deoxynivalenol, a product of fungi which, under humid conditions, may contaminate grains such as wheat, barley and oats. Also known as calcium montmorillonite clay, bentonite clay consists of stacked, sheet-like layers which carry a negative charge and swell when moist. In addition to ionically binding to positively charged harmful substances, bentonite's unique "pillared" structure allows it to mechanically trap toxins within its layers. Its structural advantage provides bentonite clay with a more versatile and broader spectrum function than other types of mineral binders such as zeolite, a crystalline aluminosilicate whose toxin binding capacity is limited in scope. An added benefit of bentonite, due to its ability to expand when absorbing water, is to support bowel health by adding firmness and bulk to the stool.

CHLORELLA VULGARIS is a single-celled, freshwater algae rich in chlorophyllin, the deep green pigment in plants. Chlorella has been shown to bind to heavy metals such as lead, mercury, cadmium, and arsenic. In animal research, chlorella significantly reduced whole body retention of strontium and thallium, and was shown to increase their excretion through feces and urine. A 2018 human study reported that three months of chlorella supplementation reduced mercury concentration in the hair and blood of healthy subjects. Other research suggests chlorella may inhibit the intestinal absorption of carcinogenic heterocyclic amines and promote the fecal excretion of dioxins, persistent environmental pollutants known to bioaccumulate in human tissues and impair health. ProBind Select™ utilizes the preferred "broken cell wall" form of *Chlorella vulgaris* for optimum nutrient bioavailability, detoxification benefits, and efficacy.

SACCHAROMYCES BOULARDII is a deactivated yeast based probiotic which helps to increase the effectiveness of ProBind Select™. *S. boulardii* is a subspecies of food grade *Saccharomyces cerevisiae*, commonly known as bakers or brewers yeast, which has been shown to bind heavy metals such as lead, cadmium, copper and mercury, as well as multiple mycotoxins including aflatoxin M1, ochratoxin A, and zearalenone. *S. boulardii* has a higher heat tolerance than *S. cerevisiae*, allowing *S. boulardii* to survive passage through the gastrointestinal tract where it is well known to benefit gut health and promote bowel regularity in people with irritable or inflammatory bowel conditions. *Saccharomyces boulardii* also has been studied to inhibit the growth of pathogenic yeast and bacteria in the gut, and is often given in tandem with lactobacilli and other binders for enhanced benefits.

PROBIOTIC BINDER BLEND Lactobacilli are beneficial bacteria which produce lactic acid as a byproduct of carbohydrate fermentation. While generally associated with healthy GI function, certain lactobacilli species have been studied specifically for their ability to adsorb (physically or chemically bind to) toxic substances on their surface. ProBind Select™ contains *L. casei*, *L. rhamnosis*, and *L. plantarum*—three of the best researched lactobacillus organisms shown in numerous studies to decrease the toxic effects of heavy metals, bisphenol A, plastics, phthalates, and mycotoxins, notably aflatoxin, a potent liver carcinogen.

REFERENCES

1. Fricke RF, Jorge J. Assessment of efficacy of activated charcoal for treatment of acute T-2 poisoning. *J Toxicol Clin Toxicol*. 1999;28(4):421-431.
2. Pollock BH, Elmore S, et al. Intervention trial with calcium montmorillonite clay in a south Texas population exposed to aflatoxin. *Food Addit Contam Part A Chem Anal Control Expo Risk Assess*. 2016 Aug; 33(8): 1346-1354.
3. De Mil T, Devreese M, et al. Characterization of 27 Mycotoxin Binders and the Relation with in Vitro Zearalenone Adsorption at a Single Concentration. *Toxins (Basel)*. 2015 Jan; 7(1): 21-33.
4. Yadav M, Kumar V, et al. Quantitative evaluation of Chlorella vulgaris for removal of toxic metals from body. *Journal of Applied Phychology*. 2022 Feb; 34(2): 2743-2754.
5. Bito T, Okumura E, et al. Potential of Chlorella as a Dietary Supplement to Promote Human Health. *Nutrients*. 2020 Sep; 12(9): 2524.
6. Karazhiyan H, Mehraban SM, et al. Ability of different treatments of Saccharomyces cerevisiae to surface bind aflatoxin M1 in yoghurt. *JAST*. (2016)18:1489-98
7. Wang Y, Han J, et al. The Involvement of Lactic Acid Bacteria and Their Exopolysaccharides in the Biosorption and Detoxification of Heavy Metals in the Gut. *Biol Trace Elem Res*. 2024 Feb;202(2):671-684.
8. Kinoshita H, Sohma Y, et al. Biosorption of heavy metals by lactic acid bacteria and identification of mercury binding protein. *Res Microbiol*. 2013 Sep;164(7):701-9.

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