# Detox Renewal Kit

# **Biotransformation Program**



Detox Renewal Micro-Kit includes 10 single serving packets of OptiCleanse GHI Vanilla Delight Sugar-& Stevia-Free, 1 bottle of ColonX 60c, 1 carton of ProbioMax Daily DF 30c, and 1 bottle of Drainage 1 fl oz.

Detox Renewal Kit includes 1 bottle of OptiCleanse GHI Vanilla Delight, 1 bottle of ColonX 60c, 1 carton of ProbioMax Daily DF 30c, 1 bottle of Drainage 1 fl oz, and 1 20 oz Shaker Bottle.

# **Discussion**

While other detoxification kits that are found in the marketplace focus simply on liver detoxification, the reach of XYMOGEN's Detox Renewal Kit extends far beyond the liver. Of course, supporting phase I and phase II liver detoxification pathways and antioxidant activity, as accomplished by OptiCleanse GHI, is critical; but there are multiple systems and organs involved in detoxification. For this reason, a detox program cannot be truly comprehensive without addressing the whole body.\*

For instance, the movement of food and waste through the digestive system is an important aspect of cleansing and detoxification. Food must be well-digested, and it must move at a healthy pace through the intestines and colon. The longer the transit time, the longer the toxic waste matter sits in the bowel, and the more likely that toxins will be reabsorbed. XYMOGEN's Detox Renewal Kit includes the regularity-supporting action of ColonX not only to complement the liver-detoxing functions of OptiCleanse GHI but also because bowel movements should be regular before the start of a detox program.\*

Probiotics are another critical aid to the detoxification process. Probiotics may help reduce toxin production in the intestines, and they also help directly eliminate toxins. An animal study showed that compared to controls, rats supplemented with probiotics had a significant decrease in blood BPA (bisphenol A) concentration after BPA administration, a 2.4 times greater excretion of BPA in feces, and a significantly higher percentage of BPA bound to the sediment fraction of the feces. [1] Laboratory tests suggest that probiotics are able to adsorb or metabolize NMDA (N-nitrosodimethylamine), nitrate, HCA (heterocyclic aromatic amines), and a variety of organophosphorus pesticides. [2-5] Furthermore, certain gut microbiota, such as lactobacilli, can bind and sequester heavy metals, [6,7] which can result in eventual removal of the metals through defecation. \*[6,8]

By including probiotics with formulas that specifically promote good digestion, drainage, regular bowel elimination, GI health, balanced

# **Clinical Applications**

- » Supports Natural Detoxification Mechanisms\*
- » Helps Maintain a Healthy Intestinal Microecology\*
- » Supports the Body's Natural Immune Response\*
- » Supports a Balanced Cytokine Profile\*
- » Supports Digestion, Assimilation, and Elimination\*
- » Supports Lactose Digestion\*
- » Promotes Gastrointestinal Health, Motility, Stool Bulk, and Bowel Regularity\*

**Detox Renewal Kit** is designed to renew and enhance the body's cleansing and detoxification capabilities. It combines four specially selected XYMOGEN formulations: ColonX™, Drainage™, ProbioMax® Daily DF, and OptiCleanse® GHI. When taken together, as recommended within the 6-Day Detox Guide, these complementary formulas work in concert to encourage the various detox-linked systems and organs of the body to process and eliminate waste and toxins. \*

phase I and phase II detoxification, and powerful antioxidant protection, Detox Renewal Kit is a truly complete and thoughtful approach to detoxification. Each formula addresses different aspects of whole body detoxification:

**OptiCleanse GHI** is a comprehensive, fructose-free, low-allergy—potential dietary supplement designed to support GI function and balanced detoxification. [9-12] OptiCleanse GHI contains macro- and micronutrients, as well as a host of specialized ingredients (some patented or proprietary) that help moderate phase I detoxification and upregulate and support phase II pathways. [13-15] Generous antioxidant support combats the free radicals produced during phase I activation; and activated cofactors support mitochondrial energy production, which is needed for biotransformation and detoxification. Additionally, this multifaceted formula supports healthy eicosanoid metabolism and cytokine production.\*

In addition to a host of phytonutrients, amino acids, and antioxidant nutrients, OptiCleanse GHI features VegaPro™, XYMOGEN's proprietary amino acid and pea/rice protein blend; Aminogen®, an enzyme matrix that facilitates protein absorption; Preventium®, a patented form of potassium hydrogen d-glucarate that supports glucuronidation; Albion mineral amino acid chelates; and activated B vitamins, including Quatrefolic® and methylcobalamin.\*

**ColonX** is designed to support GI regularity and complement dietary fiber intake. GI regularity and function is vital to physiological balance and overall well-being. How well the body digests and assimilates metabolic fuel and eliminates metabolic waste determines health at the cellular level. Toxins that enter the body must be detoxified and their metabolites must exit the body. Gastrointestinal elimination plays a major role in detoxification by expelling the remnants of toxic molecules. If these harmful remnants are not eliminated, they can recirculate throughout the body.\*

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## OptiCleanse® GHI Sugar- & Stevia Free Vanilla Delight Single Serving Packet Supplement Facts

Serving Size: 2 Scoops (about 58 g) Servings Per Container: About 14

	Amount Per Serving	%DV
Calories	220	
Total Fat	9 g	12%*
Saturated Fat	3 g	15%*
Total Carbohydrate	11 g	4%*
Dietary Fiber	5 g	18%*
Protein	26 g	
Vitamin A (as natural beta-carotene)	1500 mcg	167%
Vitamin C (as sodium ascorbate)	250 mg	278%
Thiamin (as thiamine HCI)	15 mg	1250%
Riboflavin (as riboflavin 5'-phosphate sodium)	5 mg	385%
Niacin (as niacinamide and niacin)	40 mg	250%
Vitamin B6 (as pyridoxal 5'-phosphate)	5 mg	294%
Folate (as Quatrefolic® (6S)-5-methyltetrahydrofolic acid, glucosamine salt)	200 mcg DFE	50%
Vitamin B12 (as MecobalActive™ methylcobalamin)	50 mcg	2083%
Biotin	150 mcg	500%
Pantothenic Acid (as d-calcium pantothenate)	35 mg	700%
Choline (as choline bitartrate)	100 mg	18%
Calcium (as DimaCal® di-calcium malate and ingredients with naturally occurring calcium)	265 mg	20%
Iron (naturally occurring)	6 mg	33%
lodine (as potassium iodide)	60 mcg	40%
Magnesium (as Albion® di-magnesium malate)	140 mg	33%
Zinc (as TRAACS® zinc bisglycinate chelate)	10 mg	91%
Selenium (as Albion® selenium glycinate complex)	100 mcg	182%
Manganese (as TRAACS® manganese bisglycinate chelate)	2 mg	87%
Chromium (as TRAACS® chromium nicotinate glycinate chelate	) 60 mcg	171%
Molybdenum (as TRAACS® molybdenum glycinate chelate)	35 mcg	78%
Sodium (naturally occurring)	530 mg	23%
Potassium (naturally occurring)	510 mg	11%
Stabilized Flaxseed Alpha-Linolenic Acid Linoleic Acid	5.6 g 1.28 g 392 mg	** **
Pomegranate Extract ( <i>Punica granatum</i> )(hull)(40% ellagic acid)	-	**
Betaine Anhydrous (trimethylglycine)	250 mg	**
Lemon Bioflavonoid Complex ( <i>Citrus × limon</i> )(fruit peel)(25% bioflavonoids)	250 mg	**
Quercetin (as quercetin dihydrate from <i>Dimorphandra mollis</i> ) (pod)	250 mg	**
Preventium® (potassium d-glucarate)	250 mg	**
Rutin (from Sophora japonica)(bud)	200 mg	**
Turmeric Extract (Curcuma longa)(rhizome)(95% curcuminoids	) 200 mg	**
N-Acetyl-L-Cysteine	150 mg	**
Ginger (Zingiber officinale)(rhizome)	150 mg	**
Methylsulfonylmethane (MSM)	120 mg	**
Sodium Sulfate Anhydrous	100 mg	**
Watercress (Nasturtium officinale)(herb)	100 mg	**
Green Tea Aqueous Extract ( <i>Camellia sinensis</i> )(leaf)(80% polyphenols, 60% catechins, 30% EGCG, 6% caffeine)	82 mg	**
* Percent Daily Values are based on a 2,000 calorie diet. ** Daily Value (DV) not established.		

Other Ingredients: VegaPro™ (XYMOGEN's proprietary blend of pea protein concentrate, pea protein isolate, taurine, glycine, rice protein concentrate, and L-glutamine), sunflower oil, natural flavors (no MSG), medium-chain triglyceride oil, tripotassium citrate, cellulose gum, xanthan gum, Aminogen®, monk fruit extract,

**DIRECTIONS:** Blend, shake, or briskly stir the contents of one packet (54 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 practitioner.

Consult your healthcare practitioner prior to use. Individuals taking medication should discuss potential interactions with their healthcare practitioner.

STORAGE: Store in a cool, dry place out of reach of children.

**DOES NOT CONTAIN:** Wheat, gluten, yeast, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or artificial preservatives.



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Mecobal Active is a trademark of Ferrer Health Tech.

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

**Detox Renewal Kit** contains OptiCleanse GHI Vanilla Delight which has all of the same active ingredients found in OptiCleanse GHI Sugar- & Stevia Free Vanilla Delight. However, it contains sugar and stevia, and does contain monk fruit extract.

ColonX features magnesium citrate for its promotion of muscle relaxation and effective elimination of feces through the bowel. Magnesium citrate is also highly bioavailable. [16] Cape aloe is added to support normal GI transit time and stool bulk. [17] Triphala, a balanced blend of astringent fruits used extensively in Ayurveda, is present to support all phases of digestion, assimilation, and elimination. \*[18]

**Drainage** combines homeopathic "drainers" with homeopathic remedies that support excretory function and address symptoms of toxicity. Cleansing itself of by-products and waste that accumulate is an essential function of the body. Homeopathic drainage, specifically, is a process of detoxifying the body that involves opening the emunctories and elimination channels and discharging toxic accumulation. Emunctories are organs of elimination: liver, kidneys, lungs, stomach, intestines, pancreas, skin, nose, genitals. Toxic accumulation can occur from external sources, such as pesticides, insecticides, and herbicides, and from internal sources, such as stress and inadequate nutrition, which lead to undesirable changes in metabolic function.\*

ProbioMax Daily DF is a vegetarian, dairy- and gluten-free, four-strain probiotic formula totaling 30 billion CFU (colony forming units) per capsule. Supplementation with probiotics assists with many mechanisms of action that benefit health, including (1) supporting metabolic activity, such as the production of short-chain fatty acids and vitamins, nutrient absorption, and the digestion of lactose; (2) adhering to intestinal epithelial cells to help maintain a healthy balance of organisms in the intestinal tract; (3) helping to establish populations of good bacteria after disruption in balance; (4) supporting immune function; (5) promoting intestinal epithelial cell survival; (6) supporting healthy bowel function; and (7) degrading oxalates. [19-25] Additionally, the role of probiotics in direct detoxification and elimination of unwanted substances is scientifically supported, as discussed earlier.\*[1-8]

ProbioMax Daily DF provides four researched strains of beneficial bacteria: *Lactobacillus acidophilus* La-14, *Lactobacillus plantarum* Lp-115, *Bifidobacterium longum* BI-05, and the extensively studied HN019 strain of *Bifidobacterium lactis*. These live microorganisms have proven health benefits and well-established safety, and have been tested for epithelial cell adhesion and/or resistance to low pH.\*

Each vegetarian capsule is sealed in nitrogen-purged aluminum blister packs that serve as protection from factors proven to compromise probiotic stability, such as heat, moisture, and oxygen. To further support resistance to low pH and assist the delivery of microorganisms to the small intestine, XYMOGEN employs DRcaps™ gastro-resistant capsules. These specially designed, innovative capsules help slow the exposure of actives to stomach acid and ensure more targeted release.\*

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#### ColonX™ Supplement Facts

Serving Size: 2 Capsules

Amount Per Serving	%Daily Value
200 mg	50%
250 mg	**
50 mg	**
	200 mg 250 mg

Other Ingredients: HPMC (capsule), stearic acid, magnesium stearate, silica, and medium-chain triglycerides.

**DIRECTIONS:** Take one to two capsules at bedtime with 8 oz of water, or as directed by your healthcare practitioner. Do not use if tamper seal is damaged.

**DOES NOT CONTAIN:** Wheat, gluten, corn protein, yeast, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, artificial colors, artificial sweeteners, or preservatives.

**CAUTIONS:** Consult your healthcare practitioner before use. **DO NOT USE IF YOU ARE PREGNANT OR NURSING.** Discontinue use if diarrhea or abdominal pain develops. Intended for occasional support of bowel movements.

**STORAGE:** Keep tightly closed in a cool, dry place out of reach of children.



#### ProbioMax® Daily DF Supplement Facts

Serving Size: 1 Capsule

	Amount Per Serving	%Daily Value
Proprietary Blend Lactobacillus acidophilus La-14 Bifidobacterium longum BI-05 Lactobacillus plantarum Lp-115	174 mg (15 Billion CFU†)	**
HOWARU® Bifido ( <i>Bifidobacterium lactis HN019</i> )	50 mg (15 Billion CFU†)	**
** Daily Value not established.		
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Other Ingredients: Microcrystalline cellulose, HPMC (acid-resistant capsule), stearic acid, magnesium stearate, and silica.

† Colony-Forming Unit

**DIRECTIONS:** Take one capsule with water daily, or as directed by your healthcare practitioner.

Children and pregnant or lactating women should consult their healthcare practitioner prior to use.

**DOES NOT CONTAIN:** Wheat, gluten, corn, yeast, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or preservatives.

**STORAGE:** No refrigeration necessary. Keep closed in a cool, dry place out of reach of children.





# **Drainage**

**DIRECTIONS:** Ages 12 and up, take 6 drops by mouth (ages 0 to 11, give 3 drops) at bedtime, or use as directed by your healthcare practitioner.

**ACTIVE INGREDIENTS:** Equal parts of Carduus mar. 3x, Cynara 3x, Solidago 3x, Taraxacum 3x, Benzoicum ac. 15x, Berber. vulg. 15x, Bryonia 15x, Cantharis 15x, Carduus ben. 15x, Ceanothus 15x, Chelidonium maj. 15x, Chionanthus 15x, Cinchona 15x, Dioscorea 15x, Dolichos 15x, Iris vers. 15x, Juniperus com. 15x, Nux vom. 15x, Ptelea 15x, Taraxacum 15x, Uricum ac. 15x.

**INACTIVE INGREDIENTS:** USP purified water; USP gluten-free, non-GMO, organic cane alcohol 20%.

**WARNING:** Keep out of reach of children. Do not use if tamper-evident seal is broken or missing. If symptoms worsen or persist for more than a few days, consult a doctor. If pregnant or breast-feeding, ask a doctor before use.

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Additional references available upon request

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All XYMOGEN® Formulas Meet or Exceed cGMP Quality Standards.