



NEW PRODUCTS
**DIGESTIVE SUPPORT
FOR HEALTHY AGING[†]**



DOUGLAS LABORATORIES | PUSHING POTENTIAL.

[†]These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.

Microbiome Protect™

Microbiome Protect™ is a combination of clinically studied IgY Max® immunoglobulins, LactoSpore® probiotic and BioEcolians® α-gluco-oligosaccharide prebiotic to support the microbiome of the gastrointestinal tract. A great-tasting, natural vanilla-flavored powder, Microbiome Protect™ can easily be added to liquids or foods.‡

- IgY Max® contains strain-specific antibodies against 26 human-relevant bacteria to promote mucosal immunity by competing for adhesion with other bacteria in the digestive tract‡
- Provides symbiotic support for beneficial bacterial growth from two key ingredients:‡
 - BioEcolians® prebiotics, which increase gut Lactobacilli and Bifidobacteria
 - LactoSpore® probiotics, which contain *Bacillus coagulans* to support the homeostasis of the intestinal mucosa by providing the optimal environment for healthy bacteria to flourish‡
- Promotes balanced cytokine production‡
- Gluten- and dairy-free, easy-to-mix powder

Formula	Size
57733P	120 g Powder (4.2 oz)

Suggested Usage: 1-2 scoops daily

SUPPLEMENT FACTS PL

Serving Size 1-2 Scoops • Servings Per Container 15 - 30

Amount Per Serving	%DV
Calories	15
Total Fat	1 g 1%^
Saturated Fat	0.25 g 1%^
Cholesterol	37.5 mg 13%
Protein	1 g 2%^
IgY Max® (hyperimmunized egg powder).....	2.25 g *
BioEcolians® (α-gluco-oligosaccharide [GOSα])	1 g *
LactoSpore® (<i>Bacillus coagulans</i>)	1 Billion CFU *

*Daily Value (DV) not established.

^Percent Daily Value (DV) based on 2,000 calorie diet.

Other ingredients: Natural French vanilla flavor, monk fruit extract

Contains: Egg

LactoSpore® is a registered trademark of Sabinsa Corporation.

IgY Max® is a registered trademark of IgY Nutrition, LLC.

BioEcolians® is a registered trademark of Solabia.

Microbiome Fiber

Microbiome Fiber delivers an excellent source of natural dietary fiber that supports bowel regularity and provides prebiotic benefits for gastrointestinal health. This soluble and low-fermentable fiber is a partially hydrolyzed guar gum that is well tolerated and suitable for a low-FODMAP diet. It is also tasteless and colorless, allowing for versatile use.‡

- Provides 5 g of natural dietary prebiotic fiber per serving
- Tasteless, odorless and dissolves clear
- Low FODMAP certified™ and well-tolerated compared to other fibers
- Clinically proven for bowel regularity and healthy stool consistency‡
- Promotes a healthy intestinal microbiome and growth of beneficial gut bacteria‡
- Supports healthy glycemic control and satiety‡

Formula	Size
57732P	198 g Powder (7 oz)

Suggested Usage: 1 scoop daily

SUPPLEMENT FACTS PL

Serving Size 1 Scoop • Servings Per Container 30

Amount Per Serving	%DV
Calories	13
Total Carbohydrate	6 g 2%^
Dietary Fiber	5.6 g 20%^
Sodium (from fiber)	67 mg 3%

*Daily Value (DV) not established.

^Percent Daily Value (DV) based on 2,000 calorie diet.

Other ingredients: Sunfiber® (Partially Hydrolyzed Guar Gum).

Sunfiber® is a registered trademark of Taiyo International, Inc.

Monash University Low FODMAP Certified™

For a full listing of our Digestive Support Products‡, visit douglaslabs.com/digestive

In terms of surface area, the gastrointestinal tract comprises one of the largest organs in the body. The roles that it plays are varied and extend well beyond simply moving and digesting food to allow for the absorption of nutrients. In addition to acting as a barrier against the harsh external environment, the digestive system also represents one of the body's largest immune organs, possessing an intricate lymph network. The gastrointestinal tract houses a highly complex ecosystem that contains trillions of microorganisms. Research continues to uncover new ways in which beneficial bacteria can positively impact health, expanding beyond the confines of the digestive tract to include cardiovascular health, cognition, weight management and more.‡

Gluten-Dairy Ultra Enzyme Natural Berry Flavor

Gluten-Dairy Ultra Enzyme contains effective enzymes to support the digestion of gluten and lactose in a delicious, natural berry chew designed for children and adults. These clinically researched enzymes assist with gastric and pancreatic enzymes of the gastrointestinal tract to break down gluten and lactose into their basic components.‡

- Helps breakdown residual gluten for individuals following a gluten-free diet‡
- Tolerase G® targets proline-rich gluten epitopes and is resistant to the low-pH gastric environment‡
- BioCore Dairy® supports the enzymatic action of lactose and beta-lactoglobulin proteases in dairy foods‡
- May help to relieve occasional bloating or gas from lactose‡
- Chewable, natural berry-flavored tablet‡

Formula **Size**
 202467 60 Chewable Tablets
Suggested Usage: Adults and children age 3+ chew 1 tablet with each meal, up to 3 times daily

SUPPLEMENT FACTS (PL)

Serving Size 1 Chewable Tablet • Servings Per Container 60

Amount Per Serving	%DV
Total carbohydrate	0 g *
Sugar alcohol	1 g *
Tolerase® G prolyl endopeptidase	144 mg *
(from <i>Aspergillus niger</i>)	
Supplying prolyl endopeptidase activity	83,520 PPI
BioCore Dairy®-I	105 mg *
Supplying:	
Protease (from <i>Aspergillus niger</i>)	399 BLGU
Protease (from <i>Aspergillus oryzae</i>)	231 BLGU
Lactase (from <i>Aspergillus oryzae</i>)	1,000 ALU

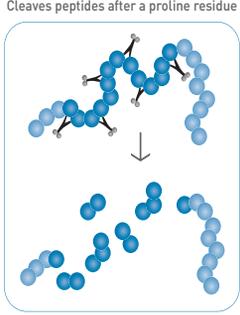
*Daily Value (DV) not established.

Other ingredients: Mannitol, xylitol, sunflower lecithin, natural mixed berry and dark cherry flavors, organic acacia gum.

BioCore Dairy®-I is a trademark of National Enzyme Company.
 Tolerase® G is a trademark of DSM.
 Tolerase® G is not intended to replace a gluten-free diet.
 Tolerase® G is not intended to treat or prevent Celiac disease.

Tolerase® G

Cleaves peptides after a proline residue



- Unique and IP-protected enzyme
- Scientifically proven to digest proline-rich gluten epitopes
 - *in vitro*¹
 - In a gastrointestinal model²
 - In humans^{3,4}
- Active under stomach conditions
 - Active and stable at low (stomach) pH
 - Resistant to pepsin

1. Stepniak D et al. *Am J Physiol Gastrointest Liver Physiol* 2006;291:G621-G629.

2. Mitea C et al. *Gut* 2008;57(1):25-32.

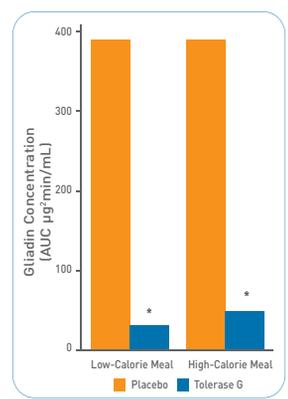
3. Salden BN et al. *Aliment Pharmacol Ther* 2015;42(3):273-85.

4. König J et al. *Sci Rep*. 2017 Oct 12;7(1):13100.

Tolerase® G Digests Gluten In Humans

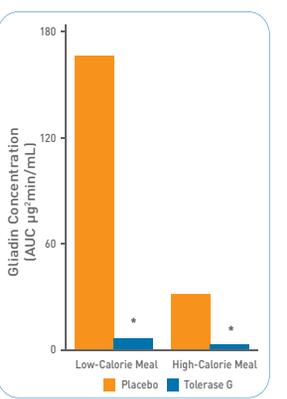
Gluten Digestion in the Stomach and Duodenum

Stomach



Meal Type	Placebo	Tolerase G
Low-Calorie Meal	~380	~20*
High-Calorie Meal	~380	~40*

Small Intestine (Duodenum)



Meal Type	Placebo	Tolerase G
Low-Calorie Meal	~160	~10*
High-Calorie Meal	~40	~5*

Tolerase® G significantly reduces the presence of intact gluten in the GI tract

*Significantly different compared to placebo, p<0.05
 Gliadin Concentration = AUC 0-240 min DQ2.5-glia-q3
 Salden BN et al. *Aliment Pharmacol Ther* 2015

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(PL) Denotes professional label-eligible formula

[Developed by Daniel Kalish, D.C.]⁺

Protocol Objectives:

To provide supplemental recommendations to help support the gastrointestinal microbiome and healthy bacterial levels while maintaining normal intestinal permeability and GI function.[‡]

Refer to the Gastrointestinal Support Protocol[‡] for further recommendations for digestive support.[‡]

Clinical Objective [‡]	Assessment	Select from the Following Recommendations [‡]	Dosing
Support healthy bacteria levels and balance gut microflora	Lab: Assess hydrogen/methane breath test, comprehensive stool analysis: microbial, microflora, SCFAs Patient presents with occasional gas, bloating, bowel discomfort, occasional fatigue	Microbiome Protect™	1-2 scoops powder daily
		Microbiome Fiber	1 scoop powder daily
		Multi-Probiotic® 40 Billion (Capsules or Powder)	2 capsules or ½ teaspoon powder daily, with food
Microbial support in stomach	Lab: Assess stool antigen test, PCR/DNA test, or blood test for stomach related bacteria Patient presents with minor stomach discomfort, occasional heartburn, nausea, indigestion, bloating	Pylori-Plex	2 capsules, 2-3 times daily
		Licorice Root-V (Glycyrrhizin)	1 capsule, 3 times daily
		Olive Leaf Extract	1-2 capsules daily
Microbial support in small intestine	Lab: Assess microbial stool analysis, hydrogen/methane test Patient presents with occasional fatigue, sugar cravings, gas, bloating, indigestion, loose stool	Ultra MFP Forte	4 capsules daily
		Caprylex™	2 tablets, twice daily, with meals
		Betaine Hydrochloride	1 capsule with each meal
		S.B.C.	1 capsule daily, with food
Microbial support in large intestine	Lab: Assess microbial stool analysis, commensal bacteria (PCR) test Patient presents with occasional diarrhea or loose stool, cramping, bloating	Ultra MFP Forte	4 capsules, twice daily
		Intestamine® (Capsules or Powder)	3-6 capsules or 1 scoop powder daily, without food
		S.B.C.	1 capsule daily, with food
Support healthy intestinal barrier	Lab: Assess lactulose/mannitol test, Zonulin test, DAO/Histamine, organic acids Patient presents with occasional fatigue, digestive concerns, food intolerances, immune responses	Microbiome Protect™	2 scoops powder daily
		Microbiome Fiber	1 scoop powder daily
		Multi-Probiotic® 40 Billion (Capsules or Powder)	2 capsules or ½ teaspoon powder daily, with food
		Intestamine® (Powder)	1 scoop powder daily
Support the normal immune response to antigens	Lab: Assess SIgA, IgE, IgG test Patient presents with food sensitivities and immune responses, skin concerns, joint concerns, occasional fatigue	Optimized Curcumin With Neurophenol®	2 capsules daily
		Wobenzym® Plus	2 tablets, twice daily, without food
		Liquid Vitamin D-3	0.5 -1 ml daily, with food
		QÜELL Fish Oil® Clinical Strength EPA	2 softgels daily, with food
		See also: recommendations to support healthy intestinal barrier [‡] (above)	

Dietary Recommendations:

- Address food sensitivities and/or consider an elimination diet free from gluten, dairy, soy, egg, corn, nuts and nightshades.
- For the short term until symptoms improve:
 - Consider the SCD diet (Specific Carbohydrate Diet) or AIP diet (Autoimmune Paleo Diet), both of which will limit complex carbohydrate disaccharides and polysaccharides, lactose and sucrose that may benefit patients with SIBO.
 - Consider eating a diet low in FODMAP (Fermentable Oligosaccharides, Disaccharides, Monosaccharides, and Polyols), which include the classes of fermentable sugars and sugar alcohols that contribute to fermentation in the GI tract, resulting in gas and bloating.

*Please note that patients may not require all supplements listed.

Available for download at douglaslabs.com/gi-microbiome

The information contained herein is for informational purposes only and does not establish a doctor-patient relationship.

GASTROINTESTINAL | SUPPORT PROTOCOL[‡]

[Developed by Daniel Kalish, D.C.]⁺

Protocol Objectives:

To provide supplemental recommendations to help support digestive health, integrity of the intestinal lining, and healthy GI function.[‡]

Refer to the GI Microbiome Support Protocol[‡] for further recommendations.

Clinical Objective [‡]	Assessment	Select From the Following Recommendations [‡]	Dosing
Digestive support	Patient presents with occasional gas, bloating, undigested food and irregular stools	Betaine Plus[®]	1 or more capsules as needed with each meal
		Pan-Ox-5™ or GI Digest	1 tablet with each meal 1-2 capsules with each meal
		Multi-Probiotic[®] 40 Billion (Capsules or Powder)	1-2 capsules daily, with food
		S.B.C.	1 capsule daily, with food
		If indicated, add: Gluten-Dairy Ultra Enzyme	1 chewable tablet with a meal
Support healthy intestinal barrier	Patient presents with occasional fatigue, digestive concerns, food intolerances and sensitivities, immune responses Assess lactulose/mannitol test, zonulin test, DAO/Histamine, organic acids	Microbiome Protect™	2 scoops powder daily
		Microbiome Fiber	1 scoop powder daily
		Multi-Probiotic[®] 40 Billion	1-2 capsules with food
		Intestamine[®] (Powder)	1 scoop daily, without food
Support for bowel regularity	Patient presents with occasional episodes of diarrhea and/or constipation, small intestine visceral hypersensitivity, gas, bloating, food intolerances, skin concerns	I.B. Comfort[®]	2 capsules daily
		GI Digest	1-2 capsules with meals
		Multi-Probiotic[®] 40 Billion	1-2 capsules with food
		Microbiome Fiber	1 scoop powder daily
Gut/brain axis support for healthy mood	Patient presents with occasional bowel irregularity, small intestine visceral hypersensitivity, mood fluctuations, feelings of sadness, trouble sleeping Consider neurotransmitter testing, commercial bacteria (PCR) test	Neurotransmitter Balance	2-4 capsules daily
		Mood Systems Balance	2-4 capsules daily
		See also: recommendations for digestive support or bowel regularity [‡] (above)	
Mitochondrial energy support for healthy GI function	Patient presents with occasional fatigue, slow fat-burning, brain fog Perform organic acids test, secretory IgA	MitoTone Plus	3 capsules, 1-2 times daily
		Citrus Solu-Q™	1 capsule, 3 times daily
		PQQ Plus	1-2 capsules daily

Dietary Recommendations:

- Address food sensitivities and/or consider an elimination diet free from gluten, dairy, soy, egg, corn, nuts and nightshades.
- Consider eating a low-FODMAP diet (Fermentable Oligosaccharides, Disaccharides, Monosaccharides, and Polyols). FODMAPs include the classes of fermentable sugars and sugar alcohols that contribute to fermentation in the GI tract, resulting in gas, bloating, and irregular bowel movements.

*Please note that patients may not require all supplements listed.

Available for download at douglaslabs.com/gisupportprotocol

CLINICAL ADVISOR:



Daniel Kalish, D.C.⁺

Over the past 25 years, Daniel Kalish has directed three integrative health clinics in California, where he has coordinated teams of medical doctors, nutritionists, chiropractors and acupuncturists. Dr. Kalish is dedicated to teaching doctors Functional Medicine philosophy and practices.

⁺Dr. Kalish is a retained advisor to Douglas Laboratories.

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