

Microbiome Protect™ w/IgG Intestinal Health‡

DESCRIPTION

Microbiome Protect™ w/IgG is a combination of clinically studied dairy-free ImmunoLin® immunoglobulins, *Bacillus coagulans* probiotic and α-gluco-oligosaccharide prebiotic to support and protect the intestinal microbiome. As a neutral tasting powder, Microbiome Protect™ w/IgG can be easily added to liquids or foods. ‡

INDICATIONS

- Supports beneficial bacterial growth and balance in the intestinal tract‡
- Supports healthy digestion, comfort, and regularity‡
- Supports mucosal immunity and gut barrier function‡

FUNCTIONS AND MECHANISM OF ACTION

The gastrointestinal microbiome is a complex community of microorganisms that live in the digestive tracts of humans. Intestinal homeostasis is critical for optimal nutrient utilization and immune function. The balance of pathogenic and beneficial bacteria can become unbalanced by numerous influences including genetic susceptibility, exposure to environmental factors, diet, or other physiological factors. Microbiome Protect™ w/IgG is a unique combination of immunoglobulins including IgG, lactic-acid producing *Bacillus coagulans*, and prebiotic α-gluco-oligosaccharides to support the growth and balance of beneficial bacteria and the mucosal immune response. ‡

ImmunoLin® concentrate is serum-derived bovine immunoglobulin (SBI) protein isolate containing 90% protein and over 50% immunoglobulins, peptides and growth factors that help support digestive function and a healthy mucosal immune system. Immunoglobulins such as IgG, IgM, IgA help improve digestive health and nutritional status by decreasing immune activation through mechanisms that involve antigen binding and gut barrier function. In vitro studies have demonstrated that SBI binds to and eliminates many potentially toxic microbial antigens, including lipopolysaccharides (LPS), that appear normally in the intestinal tract. Several clinical studies in both adults and children have shown improvements in bowel regularity, comfort, and stool consistency with SBI supplementation. ‡

LactoSpore® is a *Bacillus coagulans* spore-based probiotic that is stable and resistant to gastric acid and bile salt in the digestive tract. Upon activation in the acidic environment of the stomach, it can proliferate in the intestine and produce the favored L (+) form of lactic acid. LactoSpore® supports the homeostasis of the intestinal mucosa by providing the optimal environment for healthy bacteria to flourish. Furthermore, two double-blind clinical trials consuming 2 billion CFU of LactoSpore daily for 30-90 days resulted in improved bowel comfort and regularity. ‡

BioEcolians® is a dairy-free α-gluco-oligosaccharide (GOSα) prebiotic obtained by enzymatic synthesis through fermentation. It is composed of glucose units and is non-digestible due to the linkage between the saccharide units and, more specifically, to α(1-2) linkage. BioEcolians® supports healthy intestinal mucosa and bacterial balance. Research has indicated that supplementation with BioEcolians can improve digestive comfort, increase Lactobacilli and Bifidobacterium strains, and stimulate SCFA and β-defensins production. ‡

FORMULA (#57774P-70X)

	1 scoop contains:	2 scoops contain:
Calories	10	20
Total fat.....	1 g	2 g
Serum-derived bovine		
Immunoglobulin concentrate (ImmunoLin®).....	1.25 g	2.5 g
providing Immunoglobulin G (IgG).....	0.6 g	1.2 g

Microbiome Protect™ w/IgG

Intestinal Health‡

BioEcolians® α-gluco-oligosaccharide (GOSα).....	1 g	2 g
LactoSpore® <i>Bacillus coagulans</i>	70 mg (1 Billion CFU)	140 mg (2 Billion CFU)

Gluten-free, Dairy-free, Non-GMO

ImmunoLin® is a registered trademark of Enterahealth, LLC
 LactoSpore® is a registered trademark of Sabinsa Corporation
 BioEcolians® is a registered trademark of Solabia

SUGGESTED USE

Adults and children age 4+ take 1-2 scoops daily blended in 4 oz. of cool to room temperature liquid or food, or as directed by a healthcare professional. For best results, start with 2 scoops daily for the first 4 to 12 weeks, then continue with 1 scoop daily for maintenance.

Warning: If you are pregnant or lactating, have any health condition or are taking any medication, consult your health professional before use.

Caution: If you are immunocompromised, consult your healthcare professional before using probiotic-containing products.

STORAGE

Store in a cool, dry place, away from direct light. Keep out of reach of children.

REFERENCES

Detzel CJ, et al. *PLoS one*. 2015;10(4):e0120278. [ImmunoLin®]
 Wilson et al. *Clin Med Insights: Gastroenterol*. 2013; 6:49-60. [ImmunoLin®]
 Shaw et al. *Patient Preference and Adherence*. 2017; 11:1-7. [ImmunoLin®]
 Perez-Bosque A, et al. *American journal of physiology Gastrointestinal and liver physiology*. 2015;308(12):G1012-8. [ImmunoLin®]
 Vallette P. et al. *J Sci Food Agric.*, 1993, 62, 121-127. [BioEcolians®]
 Djouzi Z. et al. *J Appl. Bacteriology*, 1995, 79, 117-127. [BioEcolians®]
 Djouzi Z et al. *BJCN*, 1997, 78, 313-324.[BioEcolians®]
 Rastall R. et al. *BJCN*, 2013, 109, 1980-1989. BioEcolians®
 Gilliland SE. *FEMS Microbial Rev*. 1990;7(1-2):175-88. [LactoSpore®]
 Majeed et al. *Nutr J*. 2016. [LactoSpore®]
 Majeed et al. *J Clin Toxicol*. 2016. (safety) [LactoSpore®]

For more information on Microbiome Protect™ with IgG visit douglaslabs.com

‡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.

Manufactured by
 Douglas Laboratories
 600 Boyce Road
 Pittsburgh, PA 15205
 800-245-4440
douglaslabs.com

