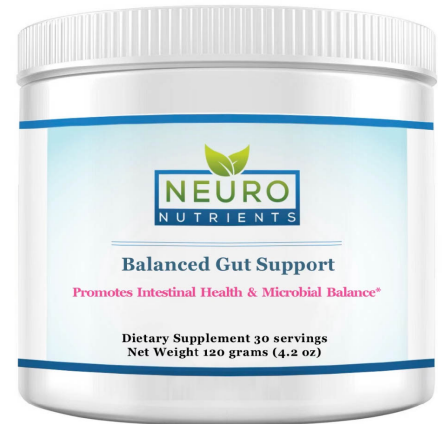




Balanced Gut Support

Promotes GI Health and Microbial Balance



Directions:

1-2 scoops daily as needed, or as directed by your healthcare provider. Mix in preferred food or drink. **Serving Size: 1 scoop (4 grams) / 30 per bottle**

Ingredients:

Serum-Derived Immunoglobulin Concentrate (as ImmunoLin®) 2,500mg (1,200mg IgG)
Galactomannan Fiber (as Sunfiber®) 1,000mg
Inulin (from Chicory Root) 500mg
Sunfiber® is a registered trademark of Taiyo International, Inc.
ImmunoLin® is a registered trademark of Entera Health®

Clinical Applications:

- Enhances microbial balance
- Helps maintain gut barrier health and integrity
- Supports elimination of harmful gut bacteria and toxins
- Promotes bowel regularity
- Enhances mucosal immunity and normal inflammatory balance
- Supports healthy glycemic index and blood sugar control

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

ImmunoLin® is a registered trademark of Enter Health

Warning: Contact your physician or medical provider prior to use. Individuals with beef allergies, are pregnant, or breast feeding should not consume this product.

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

512.599.8851 | www.neuronutrients.com
5501 Balcones Drive, Suite A, #305 | Austin, Texas 78731

Description:

A healthy gut, or microbiome, is essential for balancing nearly every aspect of health, including immunity, nervous system function, inflammation control, and how our children grow and develop. As we are exposed to too much inflammatory bacteria, fungi, and other immune stressors (such as food or toxic food components our immune systems negatively react to), or we are not exposed to enough prebiotic food fiber that help our beneficial gut bacteria grow, our microbiome can fall out of health promoting homeostasis. Balanced Gut Support was designed to support these common causes of an imbalanced microbiome, providing a synergistic blend of patented ingredients including the worlds leading immunoglobulin source (ImmunoLin®) and prebiotic fibers (Sunfiber® and inulin from chicory root). Our goal in developing Balanced Gut Support was to bring the only product that contains these health promoting synergistic ingredients to market so that patients can address common root causes of imbalanced microbiomes.

Suggested Use: 1-2 scoops daily as needed or directed by your health care provider

Store in a cool, dry place with the lid tightly closed. Keep out of reach of children.

WARNING: Consult your health care provider prior to using this product if you are pregnant, nursing, taking medication or have a medical condition.

ImmunoLin® is a registered trademark of Entera Health®

Individuals with beef allergies should not consume this product.

Manufactured for:
Neuro Nutrients
5501 Balcones Drive, Suite A, #305
Austin, Texas 78731
(512) 599-8850
Made in a GMP Compliant Facility in the U.S.



Balanced Gut Support

Promotes Intestinal Health & Microbial Balance*

Dietary Supplement 30 servings
Net Weight 120 grams (4.2 oz)

Supplement Facts

Serving Size 1 Scoop (4 g)
Servings Per Container 30

	Amount Per Serving	%DV
Protein	2 g	
Serum-Derived Immunoglobulin Concentrate (as ImmunoLin®)	2,500 mg	†
Immunoglobulin G (IgG)	1,200 mg	†
Galactomannan Fiber (as Sunfiber®)	1,000 mg	†
Inulin (Chicory Root)	500 mg	†

† Daily Value (DV) not established * Percent Daily Values are based on a 2,000 calorie diet.

Other Ingredients: None
Does not contain any milk-derived ingredients such as lactose, casein, or whey. It is soy-free, egg-free, and does not contain peanut or other nuts.
*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.

Formula Ingredient And Peer Reviewed Supportive References:

Immunolin®

ImmunoLin® is serum derived bovine immunoglobulins, consisting of >50% IgG, 5% IgA, 1% IgM. This product has an abundance of peer reviewed clinical research and is a FDA approved medical prescriptive food (Enteragam) at a higher dose (5 grams of ImmunoLin® per serving is a prescription, whereas 2.5 grams per serving or less is available OTC). While Balanced Gut Support is an OTC, supplemental form, it is the exact product (just in a lower dose) with added prebiotic fibers to create its unique blend. ImmunoLin® uniquely binds toxic substances released by bacteria (and other substances called microbial components that can create irritation in the bowels) that upset the intestinal environment. This binding action can help reduce the penetration to the lining of the intestine and reduce symptoms such as gas, bloating, abdominal discomfort, and irregular stools.

Binding harmful microbial components, prior to absorption, can eliminate them prior to immune system activation. Removing these unwanted triggers can help reset healthy immune tolerance and build a stronger gut barrier. Reducing the reasons to respond allows the tissue to maintain normal inflammatory balance and creates an environment for normal tissue repair and immune function, including improved nutritional utilization and absorption. ImmunoLin® has been demonstrated in clinical research to bind to dozens of bacterial, fungal, and inflammatory agents (including gliadin, a gluten protein) that induce inflammatory and immune reactivity in the gut. It has also been shown to improve intestinal absorption, improve tight junction protein expression, and reduce permeability of the intestinal barrier.

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

512.599.8851 | www.neuronutrients.com
5501 Balcones Drive, Suite A, #305 | Austin, Texas 78731

1. Torrallardona D. Spray dried animal plasma as an alternative to antibiotics in weaning pigs—a review. *Asian-Aust. J. Anim. Sci.* 2010;23(1):131-148.
2. Wilson D, Evans M, Weaver E, Shaw AL, Klein GL. Evaluation of serum-derived bovine immunoglobulin protein isolate in subjects with diarrhea-predominant irritable bowel syndrome. *Clin Med Insights Gastroenterol.* 2013;6:49-60.
3. Lembcke JL, Peerson JM, Brown Acceptability, safety, and digestibility of spray-dried bovine serum added to diets of recovering malnourished children. *J Pediatr Gastroenterol Nutr.* 1997;25(4):381-384.
4. Good L, Panas R. Case Series Investigating the Clinical Practice Experience of Serum-Derived Bovine Immunoglobulin/Protein Isolate (SBI) in the Clinical Management of Patients with Inflammatory Bowel Disease. *J Gastrointest Syst.* 2015;5(2)1-5.
5. Shafran I, Burgunder P, Wei D, Young HE, Klein G, Burnett BP. Management of inflammatory bowel disease with oral serum-derived bovine immunoglobulin. *Therap Adv Gastroenterol.* 2015;8(6):331-339.
6. Awad A, Jasion VS. Use of a Nutritional Therapy, Serum-Derived Bovine Immunoglobulin/Protein Isolate (SBI), to Achieve Improvement in Two Different Cases of Colitis. *J Gastrointest Syst.* 2015;5(2)1-5.
7. Beauerle B, Burnett B, Dryden G. Successful management of refractory ulcerative colitis with orally administered serum-derived bovine immunoglobulin therapy. *Clin Case Rep Rev.* 2015;1(4): 90-92.
8. Horgan A, Maas K, Henderson A, Detzel C, Weaver E. Serum-derived bovine immunoglobulin/protein isolate binds to microbe-associated molecular patterns. Poster presented at: Federation of American Societies for Experimental Biology; 2014; Washington, DC.
9. Asmuth D, Netanya S, Utay NS, Somsouk M, et al. Oral bovine immunoglobulin reduces immune activation in HIV+ immune nonresponders. Poster presented at: Conference on Retroviruses and Opportunistic Infections (CROI); February 22-25, 2016; Boston, MA.
10. Petschow BW, Burnett B, Shaw AL, Weaver EM, Klein Serum-derived bovine immunoglobulin/protein isolate: postulated mechanism of action for management of enteropathy. *Clin Exp Gastroenterol.* 2014;7:181-190.
11. Henderson AL, Brand MW, Darling RJ, et al. Attenuation of colitis by serum-derived bovine immunoglobulin/protein isolate in a defined microbiota mouse model. *Dig Dis Sci.* 2015;60(11):3293-3303.
12. Pérez-Bosque A, Miró L, Maijó M, et al. Dietary intervention with serum-derived bovine immunoglobulins protects barrier function in a mouse model of colitis. *Am J Physiol Gastrointest Liver Physiol.* 2015;308(12):G1012-G1018.
13. Pérez-Bosque A, Miró L, Maijó M, et al. Oral serum-derived bovine immunoglobulin/protein isolate has immunomodulatory effects on the colon of mice that spontaneously develop colitis. *PLoS One.* 2016;11(5):e0154823.
14. Detzel CJ, Horgan A, Henderson AL, Petschow BW, Warner CD, Maas KJ, Weaver EM. Bovine immunoglobulin/protein isolate binds pro-inflammatory bacterial compounds and prevents immune activation in an intestinal co-culture model. *PLoS One.* 2015;10(4):e0120278.
15. EnteraGam® [product information]. Ankeny, IA: Entera Health, Inc.; October 2020.
16. Iduru S, Burnett BP. Management of Celiac Disease and Non-Celiac Gluten Sensitivity with Serum-Derived Bovine Immunoglobulin/Protein Isolate. Poster presented (#1343) at 2015 ACG Annual Scientific Meeting, Honolulu, HI. October 19, 2015.
17. James W. Freston Conference, Chicago, IL; August 29, 2015. Arrouk R, Herdes R, Karpinski AC, Hyman PE. Serum-Derived Bovine Immunoglobulin (SBI) for Children with Diarrhea Predominant Irritable Bowel Syndrome (d-IBS). *Ped Health Med Thera.* 2018

Sunfiber®

SunFiber® (partially hydrolyzed guar gum/PHGG) is a dietary fiber is well recognized for a number of health benefits. SunFiber® improves digestive regularity, stool consistency and regularity of bowel movements, without causing excess gas or bloating. The consumption of PHGG has been found to be effective in suppressing the potent harmful mucolytic bacteria that could be associated with improvement of constipation-related symptoms. PHGG can increase the levels of short-chain fatty acids, such as butyrate, which acts as an energy/food source for colon, and improvement in beneficial flora.

Ingestion of PHGG prebiotic fiber can assist the body to reduce post meal blood sugar spikes by decreasing the glycemic index of food, in addition to aiding in satiety. Some dietary fibers can limit the absorption of micronutrients such as magnesium into the body. SunFiber® does not inhibit the absorption of macronutrients and may help increase the absorption of minerals.

Alterations in gut flora from PHGG may also have immune related benefits, and daily ingestion has been shown to reduce the frequency of cold and flu like symptoms. Benefits were also seen in irritable bowel patients, after taking PHGG, it helped reduce their gas and bloating scores, compared to placebo. Finally, when given to autistic children, neuro inflammatory benefits were also realized. PHGG helped lower inflammatory cytokines, such as TNFa and ILB, which in turn improved irritability scores in autism.

1. Abe, A., Morishima, S., Kapoor, M. P., Inoue, R., Tsukahara, T., Naito, Y., & Ozeki, M. (2023). Partially hydrolyzed guar gum is associated with improvement in gut health, sleep, and motivation among healthy subjects. *Journal of clinical biochemistry and nutrition*, 72(2), 189–197. <https://doi.org/10.3164/jcbn.22-75>
2. Kato T, Kamiya S, Narasaki S, Sumii A, Tsutsumi YM, Machida K, Hara K, Izumi-Mishima Y, Tsutsumi R, Sakaue H. Partially Hydrolyzed Guar Gum Intake Supports the Gut Microbiota and Attenuates Inflammation during Influenza H1N1 Virus Infection in Mice. *Nutrients*. 2023 Oct 3;15(19):4252. doi: 10.3390/nu15194252. PMID: 37836536; PMCID: PMC10574490.
3. Sakai, S., Kamada, Y., Takano, H., Ichikawa, M., Kurimoto, M., Katsuyama, H. K., Nishihira, J., & Sasaki, M. (2022). Continuous partially hydrolyzed guar gum intake reduces cold-like symptoms: a randomized, placebo-controlled, double-blinded trial in healthy adults. *European review for medical and pharmacological sciences*, 26(14), 5154–5163. https://doi.org/10.26355/eurrev_202207_29304
4. Reider, S. J., Moosmang, S., Tragust, J., Trgovec-Greif, L., Tragust, S., Perschy, L., Przysiecki, N., Sturm, S., Tilg, H., Stuppner, H., Rattei, T., & Moschen, A. R. (2020). Prebiotic Effects of Partially Hydrolyzed Guar Gum on the Composition and Function of the Human Microbiota-Results from the PAGODA Trial. *Nutrients*, 12(5), 1257. <https://doi.org/10.3390/nu12051257>

5. Inoue R, Sakaue Y, Kawada Y, Tamaki R, Yasukawa Z, Ozeki M, Ueba S, Sawai C, Nonomura K, Tsukahara T, Naito Y. Dietary supplementation with partially hydrolyzed guar gum helps improve constipation and gut dysbiosis symptoms and behavioral irritability in children with autism spectrum disorder. *J Clin Biochem Nutr.* 2019 May;64(3):217-223. doi: 10.3164/jcfn.18-105. Epub 2019 Mar 7. PMID: 31138955; PMCID: PMC6529696.
6. Niv, E., Halak, A., Tiommny, E., Yanai, H., Strul, H., Naftali, T., & Vaisman, N. (2016). Randomized clinical study: Partially hydrolyzed guar gum (PHGG) versus placebo in the treatment of patients with irritable bowel syndrome. *Nutrition & metabolism*, 13, 10. <https://doi.org/10.1186/s12986-016-0070-5>
7. Mahendra P. Kapoor, Masaaki Sugita, Yoshitaka Fukuzawa, Tsutomu Okubo, Impact of partially hydrolyzed guar gum (PHGG) on constipation prevention: A systematic review and meta-analysis, *Journal of Functional Foods*, Volume 33, 2017, Pages 52-66, ISSN 1756-4646, <https://doi.org/10.1016/j.jff.2017.03.028>.
8. Rao T. P. (2016). Role of guar fiber in appetite control. *Physiology & behavior*, 164(Pt A), 277–283. <https://doi.org/10.1016/j.physbeh.2016.06.014>
9. Sandroni, A., House, E., Howard, L., & DellaValle, D. M. (2022). Synbiotic Supplementation Improves Response to Iron Supplementation in Female Athletes during Training. *Journal of dietary supplements*, 19(3), 366–380. <https://doi.org/10.1080/19390211.2021.1887423>

Inulin (from chicory root):

Chicory is a herb native to parts of Asia and Europe and its root is a primary source of inulin in Balanced Gut Support. Inulin is a prebiotic soluble fiber that can increase SCFAs in the gut, protect the gut barrier integrity, and play a role in the reduction of inflammation. Inulin is best known for its ability to sustain increases in populations of Bifidobacterium, Lactobacillus, and Eubacterium in the bowel. Inulin supplementation can also increase stool frequency, improve consistency, enhance calcium and magnesium absorption, and reduce potentially undesirable bacterial species in the gut.

1. Qin, Y. Q., Wang, L. Y., Yang, X. Y., Xu, Y. J., Fan, G., Fan, Y. G., Ren, J. N., An, Q., & Li, X. (2023). Inulin: properties and health benefits. *Food & function*, 14(7), 2948–2968. <https://doi.org/10.1039/d2fo01096h>
2. Lei Wang, Zhuo Wang, Yongli Lan, Yanliang Tuo, Shaobo Ma, and Xuebo Liu *Journal of Agricultural and Food Chemistry* 2023 71 (36), 13325-13337 DOI: 10.1021/acs.jafc.3c03568. Inulin Attenuates Blood–Brain Barrier Permeability and Alleviates Behavioral Disorders by Modulating the TLR4/MyD88/NF-κB Pathway in Mice with Chronic Stress
3. Yanckello LM, Fanelli B, McCulloch S, Xing X, Sun M, Hammond TC, Colwell R, Gu Z, Ericsson AC, Chang YH, Bachstetter AD, Lin AL. Inulin Supplementation Mitigates Gut Dysbiosis and Brain Impairment Induced by Mild Traumatic Brain Injury during Chronic Phase. *J Cell Immunol.* 2022;4(2):50-64. doi: 10.33696/immunology.4.132. PMID: 35611116; PMCID: PMC9126115.
4. Watson AW, Houghton D, Avery PJ, Stewart C, Vaughan EE, Meyer PD, de Bos Kuil MJJ, Weijs PJM, Brandt K. Changes in stool frequency following chicory inulin consumption, and effects on stool consistency, quality of life and composition of gut microbiota. *Food Hydrocoll.* 2019 Nov;96:688-698. doi: 10.1016/j.foodhyd.2019.06.006. PMID: 31680713; PMCID: PMC6686634.
5. Cavin, C., Delannoy, M., Malnoe, A., Debeve, E., Touche, A., Courtois, D., and Schilter, B. Inhibition of the expression and activity of cyclooxygenase-2 by chicory extract. *Biochem.Biophys.Res Commun.* 2-18-2005;327(3):742-749.

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