Multi-Probiotic 15 Billion

DESCRIPTION

Each Multi-Probiotic capsule, provided by Douglas Laboratories, contains over 15 billion beneficial organisms from lactobacillus and bifidobacterium genera with additional benefits of prebiotic fructooligosaccharides for immune health and gastrointestinal support.[†]

FUNCTIONS

Oral supplements of live, beneficial intestinal micro-organisms for nutritional health and well-being are known as probiotics. Probiotic dietary lactobacilli colonize the intestinal tract. Bacteria are continually in competition for colonization space. The original bacterial colonies have an advantage over transient bacteria. Nevertheless, the composition of the intestinal microflora is dynamic and constantly changing. If harmful microorganisms proliferate, the equilibrium is disturbed, and it becomes difficult even for indigenous bacteria to maintain their necessary territory to colonize the intestine. Antibiotics tend to kill off both beneficial and harmful bacteria, and thus may also disturb the normal, healthy balance of intestinal microorganisms.

Various intestinal conditions can compromise the immune system and lower the amounts of healthy intestinal microflora. When potent probiotic supplements, such as Multi-Probiotic 15 Billion, are supplied regularly, chances are greatly increased for establishing and maintaining a healthy population of beneficial intestinal microorganisms[†]. Once established, a normal intestinal microflora rich in lactobacilli creates acidic conditions that are unfavorable for the settlement of pathogenic microorganisms.

Probiotics have been shown to exert a beneficial support through modification of the immune system host via the gut environment. *Bifidobacterium lactis* HN019 has been clinically shown in research to support the immune system by enhancing the function of leucocytes in adults and the elderly.[†] This strain may also help in the maintenance of bowel regularity and normal GI function.[†] Clinical trials also suggest that the exposure to microbes through the gastrointestinal tract powerfully shapes immune function. In particular, lactobacilli are considered to induce reactions involvingTh1 cells. Research on the L. gasseri strain supplementation has shown a beneficial effect on immunological reactions in school children. Lactobacillus rhamnosus is one of the most widely studied probiotics, noted and valued for its ability to survive in the harsh conditions of the digestive and urinary tracts. L. rhamnosus is extremely well tolerated by men and women with very rare side effects. Studies have shown that, taken regularly, L. rhamnosus can be an effective supplement in promoting and maintaining digestive tract health.

Multi-Probiotic 15 Billion is acid and bile resistant and the cultures undergo a patented cyroprotectant stabilization process for shelf stability. For example, Bifidobacterium was studied in vitro to be extremely resistant to low pH and bile acids in the duodenum. L. acidophilus DDS-1 incorporates proprietary cryoprotectant agents and stabilizers specifically designed to protect the organism and enhance stability. Clinical analysis of DDS-1 and Bifidobacterium also shows increased binding to human intestinal walls and protective effects of intestinal colonization. Certain bacterial acids in the intestines produce secondary bile acids. One study indicated that L. acidophilus DDS-1 decreased the potential for bacterial transformations of primary bile acid.

Prebiotics are carbohydrates that have short molecular chains. They function as non-digestible ingredients that can positively affect selected groups of beneficial intestinal microflora, such as lactobacillus. While probiotics merely add beneficial microflora, prebiotics affect the intestinal environment so that beneficial colonies of microflora can flourish. By aiding the beneficial microflora's survival, pathogenic microflora can have a decreased chance of survival.

INDICATIONS

Multi-Probiotic15 Billion capsules may be a useful dietary supplement for those who wish to support their intestinal microflora with potent amounts of beneficial microorganisms.

Multi-Probiotic 15 Billion

FORMULA (#200900)

Other Ingredients: Gelatin (capsule), cellulose, vegetable stearate and silica.

SUGGESTED USE

Adults take one capsule daily or as directed by a healthcare professional.

SIDE EFFECTS

No adverse side effects have been reported.

STORAGE

Refrigerate after opening with lid tightly sealed. Keep out of reach of children.

REFERENCES

Rondanelli M, et al. World J Clin Cases. 2015 Feb 16;3(2):156-62. doi: 10.12998/wjcc.v3.i2.156. Review.

Lin CS, et al. Biomed J. 2014 Sep-Oct;37(5):259-68. doi: 10.4103/2319-4170.138314.

Polak-Berecka M, Waśko A, Paduch R, Skrzypek T, Sroka-Bartnicka A. Antonie Van Leeuwenhoek. 2014 Oct;106(4):751-62. doi: 10.1007/s10482-014-0245-x.

Jarocki P, Podleśny M, Glibowski P, Targoński Z. PLoS One. 2014 Dec 3;9(12):e114379. doi:10.1371/journal.pone.0114379.

Bergström A, et al. BMC Res Notes. 2012 Aug 2;5:402. doi: 10.1186/1756-0500-5-402.

Tsai CC, et al. ScientificWorldJournal. 2014;2014:690752. doi: 10.1155/2014/690752.

Gibson GR, Fuller R. J Nutr. 2000 Feb;130(2S Suppl):391S-395S. Review.

Rerksuppaphol S, Rerksuppaphol L. Ann Trop Paediatr. 2010;30(4):299-304.

Mondot S, et al. Inflamm Bowel Dis. 2010 Aug 18.

Hong KS, et al. Gut Liver.2009 Jun;3(2):101-7. Epub 2009 Jun 30.

Multi-Probiotic 15 Billion

Sang LX, et al. World J Gastroenterolgy. 2010 Apr 21;16(15):1908-15

Robert J Boyle, Roy M Robins-Browne and Mimi LK Tang. American Journal of Clinical Nutrition, Vol. 83, No. 6, 1256-1264, June 2006

Verna EC, Lucak S. Therapeutic Advances in Gastroenterology 2010 3: 307-319

Rhode CL. Nutr Clin Pract 2009 24: 33-40.

Chen YS, Jan RL, Lin YL, Chen HH, Wang JY. Pediatr Pulmonol. 2010 Nov;45(11):1111-20.

Cebra JJ. Am J Clin Nutr 1999;69:1046S-1051S.

De Vrese M, Schrezenmeir J. Adv Biochem Eng Biotechnol. 2008;111:1-66.

Murthy M, Venkitanarayan K.S., Rangavajhyala N and K.M. Shahani. J. Am. Nutr. Assoc, 2000 3(2), 38-43

Ahmed, M et al. J Nutr Health Aging. 2007 Jan-Feb;11(1):26-31.

Waller, Phillip et al. Scand J Gastro, 2011; 46: 1057-64.

For more information 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



You trust Douglas Laboratories. Your patients trust you.

© 2012 Douglas Laboratories. All Rights Reserved