Ultra G.I.™

Nutritional Support for the Gastrointestinal Tract†

DESCRIPTION

Ultra G.I.™ supplied by Douglas Laboratories is a formula containing beneficial amounts of dietary constituents such as L-glutamine and N-Acetyl Glucosamine specifically designed for the strength, permeability, and support of intestinal tract.†

FUNCTIONS

The amino acid glutamine plays a key role in the metabolism, structure, and function of the entire gastrointestinal (GI) tract, and its extensive immune system. Glutamine is perhaps the major energy source for intestinal cells, and under conditions of physiological stress the GI tract benefits greatly from extra dietary glutamine. Glutamine is the most abundant amino acid found in blood, and is a vehicle for nitrogen transport. Glutamine-consuming tissues, such as the GI tract, the liver, and the immune system, use glutamine for the synthesis of nucleotides, proteins, and amino sugars.

Intestinal mucosal cells produce large amounts of mucous that are constantly secreted into the intestinal lumen. This mucous protects the mucosal cells, and helps propel digested food throughout the GI tract. Just like glucosamine, N-Acetyl-D-Glucosamine (NAG) is a naturally occurring amino sugar. NAG is found in glycosaminoglycans which are major structural components in intestinal mucous secretions as well as connective tissues. Supplementation with these amino sugars can help maintain normal glycosaminoglycan synthesis and intestinal mucous production.

FOS (fructooligosaccharides) can selectively feed the beneficial symbiotic bacteria, such as Lactobacillus acidophilus, Bifidobacteria, and other acid-producing bacteria. Regular consumption of FOS has been shown to support healthy levels of these beneficial bacteria in the colon.

The other nutritional ingredients of Ultra G.I., including Vitamin E and gamma oryzanol, can also play a role in maintaining a healthy digestive system.

INDICATIONS

Ultra GI may be a useful dietary supplement for those who wish to provide dietary support for a healthy GI tract.

FORMULA (#82752)

3 capsules provide:	
L-Glutamine	563mg
N-Acetyl Glucosamine	281mg
(from crab and shrimp)	
Gamma linolenic acid	150mg
(from borage seed oil)	
Gamma oryzanol	75mg
(from rice bran oil)	
FOS	38mg
(fructooligosaccharides)	
Vitamin E	19IU
(d-alpha tocopheryl succinate)	

SUGGESTED USE

Adults take 3 capsules, up to 3 times daily or as directed by a healthcare professional.

Ultra G.I.™

Nutritional Support for the Gastrointestinal Tract†

SIDE EFFECTS

No adverse side effects have been reported.

STORAGE

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

REFERENCES

Alverdy JC. Effects of glutamine-supplemented diets on immunology of the gut. J Parenter Enteral Nutr 1990;14:109S-113S.

Burton AF, Anderson FH. Decreased incorporation of 14C-glucosamine relative to 3H-N-acetyl glucosamine in the intestinal mucosa of patients with inflammatory bowel disease. Am J Gastroenterol 1983;78:19-22. Evans MA, Shronts EP. Intestinal fuels: glutamine, short-chain fatty acids, and dietary fiber. J Am Diet Assoc 1992;92:1239-46, 1249.

Furst P, Albers S, Stehle P. Evidence for a nutritional need for glutamine in catabolic patients. Kidney Int Suppl 1989;27:S287-92.

Gibson GR, Beatty ER, Wang X, Cummings JH. Selective stimulation of bifidobacteria in the human colon by oligofructose and inulin. Gastroenterology 1995;108:975-982.

Gibson GR, Roberfroid MB. Dietary modulation of the human colonic microbiota: Introducing the concept of prebiotics. J Nutr 1995;125:1401-1412.

Goodman MJ, Kent PW, Truelove SC. Glucosamine synthetase activity of the colonic mucosa in ulcerative colitis and Crohn's disease. Gut 1977; 18:219-228.

Hidaka H, Hirayama M, Tokunaga T, Eida T. The effects of undigestible fructooligosaccharides on intestinal microflora and various physiological functions on human health. Adv Exp Med Biol 1995;270:105-117. Tsushimoto G, Shibahara T, Awogi T, Kaneko E, Sutou S,

Yamamoto K, Shirakawa H. DNA-damaging, mutagenic, clastogenic and cell-cell communication inhibitory properties of gamma-oryzanol. J Toxicol Sci. 1991 Nov;16(4):191-202. 20.

Wheeler KB, Garleb KA. Gamma oryzanol-plant sterol supplementation: metabolic, endocrine, and physiologic effects. Int J Sport Nutr. 1991 Jun;1(2):170-7. 21.

Yamauchi J, Takahara J, Uneki T, Ofuki T. Inhibition of LH secretion by gamma-oryzanol in rat. Horm Metab Res. 1981 Mar;13(3):185.

For more information on Ultra G.I.™ 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.