Permeability Select™ (previously GI Select™ II) contains an effective blend of ingredients researched to help support the repair and restoration of a healthy gastrointestinal lining. The targeted micronutrients, amino acids and botanicals in Permeability Select™ have been studied for their ability to help optimize intestinal permeability function and to help nourish, heal and soothe irritated mucosal cells within the GI tract.

Intestinal inflammation, a common source of pain and discomfort, also may be associated with serious systemic issues. Gut epithelial cells represent a critical interface between the outside environment (all ingested substances) and our internal terrain (blood, lymph, etc). Increased intestinal permeability may impair health by diminishing nutrient absorption and by allowing partially digested, oversized food particles or pathogenic organisms to pass into the bloodstream, compromising healthy immune function. Optimal gut mucosal integrity enables proper nutrient absorption and a healthy first-line immune response.

VITAMIN A, VITAMIN E, FOLATE & ZINC. Permeability Select™ provides readily absorbed micronutrients that have been researched for helping to maintain healthy gut epithelial integrity. Vitamin A is necessary for the proper maintenance of healthy mucus membranes and intestinal epithelial cells. Vitamin E is a powerful antioxidant that has been suggested to help reduce intestinal inflammation. Folate, provided in a highly bioavailable, activated 5-MTHF form, helps support healthy methylation and has demonstrated a protective role against oxidative damage in GI mucosal epithelium. Zinc has been shown to help improve barrier function in the large bowel. ZINC CARnosine has been shown in human studies to help maintain healthy intestinal permeability, help stabilize gut mucosa and help promote mucosal healing in people with chronic GI inflammation.

L-GLUTAMINE is the most abundant amino acid in the body and the lead ingredient in Permeability Select™. Glutamine is critical to intestinal health because it serves as the primary metabolic fuel for the rapidly dividing cells of intestinal epithelium. The constant turnover of these cells (average lifespan: 48 hours) demands a steady supply of nutrition. Supplementation with L-glutamine can help to meet functional needs and support the structural repair of gastrointestinal mucosal linings. Glutamine is well researched to help promote healthy intercellular tight junctures and to help optimize intestinal permeability.

SUGGESTED USE: 4 CAPSULES WITH A MEAL, TWO TIMES PER DAY OR AS DIRECTED BY YOUR HEALTHCARE PROFESSIONAL.

WARNING: IF TAKING MEDICATION, PREGNANT OR NURSING CONSULT A PHYSICIAN BEFORE USING.

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* 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.
N-ACETYL GLUCOSAMINE is an acetylated derivative of glucosamine, the well-known amino sugar which serves as a building block of joint and cartilage tissue throughout the body. In the GI tract, glucosamine acetylation is a key step in the synthesis of protective glycoproteins found in healthy gastric and intestinal mucous membranes. Intestinal inflammation is associated with reduced acetylation activity and a breakdown of glycosaminoglycans at the mucosal surface.

OKRA is an edible fruit, containing soothing mucilaginous polysaccharides and proteins that have been researched to help prevent bacteria from adhering to GI mucosal linings. Bacterial overgrowth has been widely associated with gut inflammation. Okra also may help to trap antigens and serve as a binding site for healthy probiotic microflora in the large intestine.

CAT’S CLAW is a woody vine whose inner bark contains immune-supportive, anti-inflammatory compounds with potent antioxidant activity. In an animal study on rats with experimentally-induced chronic intestinal inflammation, a Cat’s Claw bark extract was shown to normalize mucosal architecture, directly degrade peroxynitrite, and inhibit activation of NF-kappaB, a transcriptional factor known to trigger the inflammatory cascade.

ALOE VERA is a soothing, mucilaginous plant that has been shown to decrease the production of prostaglandin E2 within the GI tract. A 2004 placebo-controlled clinical trial found that 4-weeks treatment with aloe vera helped to significantly improve symptoms in patients with chronic intestinal inflammation compared to placebo. The premium quality, 200:1 aloe concentrate in Permeability Select™ is processed at low temperatures to retain an outstanding polysaccharide profile.

QUERCETIN DIHYDRATE is an immune-supportive flavonoid that has been suggested to enhance the barrier function of human colonic epithelial cells. Quercetin is also a noted inhibitor of inflammation in mucous membranes.

SODIUM BUTYRATE (BUTYRIC ACID) is a short chain fatty acid produced within the large intestine by bacterial fermentation of digestion-resistant carbohydrates. Butyrate serves as the primary fuel of colonocytes and enhances the growth of probiotic organisms such as lactobacilli and bifidobacteria, supporting healthy colon epithelium structure and function. Insufficient gut bacteria limits the endogenous production of short chain fatty acids, increasing dependence on glutamine and suggesting a role for probiotics to further support gut health.

GAMMA ORYZANOL is a rice bran oil extract containing anti-inflammatory phytosteryl ferulates. Like Cat’s Claw, gamma oryzanol has been suggested to inhibit NF-kappaB activity and shows potential as a therapeutic or protective compound for inflammatory GI disorders.

REFERENCES

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