OXYPERM

Intestinal Antioxidant Protection

BREAKING THE CYCLE

Reducing oxidative stress is an important treatment objective for gastrointestinal health. It can help break the vicious cycle that makes other GI conditions worse. Even under normal conditions, the gut is a very active source of free radical production from the body's naturally occurring endotoxins, as well as from microbial metabolism and dietary xenobiotic ingestion. The presence of inflammatory mediators can add to free radical production directly, and also increases the body's exposure to free radicals in the gut lumen by altering intestinal permeability.

A TIME-TESTED SOLUTION

Widely used by naturopathic physicians for more than 10 years, Oxyperm is an effective, high-potency combination of natural antioxidants that have been shown to exert their effects in ways that specifically benefit the intestinal mucosa. Featuring quercetin, standardized Ginkgo biloba, and N-acetyl-L-cysteine, in combination with supportive vitamins and minerals, Oxyperm provides targeted protection to restore healthy gastrointestinal function.

Description

Oxyperm is an antioxidant formula specifically designed to support the health of the intestinal mucosa while replenishing intracellular glutathione, the most important antioxidant within cells.

How It Works

The natural antioxidants in Oxyperm provide nutritional support for the intestinal mucosa. Selected key ingredients provide the following benefits:

Ingredient	Benefit
Vitamin A	Beta carotene quenches free radicals in the lipid membranes, and may protect tocopherols. Supplementation with beta carotene has been found to improve antioxidant status in vivo. Vitamin A is important to the normal differentiation and growth of epithelial cells. Laboratory studies have shown that vitamin A is also important for the support of colonic mucosa and the body's anti-inflammatory processes.

Vitamins C and E	Vitamins C and E play essential roles in protecting intestinal mucosal cells from oxidative and free-radical stressors. In one clinical trial, oral supplementation with 300 mg of vitamin E resulted in support of inflammatory processes in the colonic mucosa. A 1995 study showed significantly increased requirements of vitamin C in mucosal tissues compared to controls. In another study, animals given vitamin C every day had healthy intestines compared to animals not given the supplement.
Zinc	Dietary zinc appears to play a critical role in the maintenance of normal intestinal permeability and modulation of inflammatory processes. Zinc deficiency has been shown to cause disruption in mucosal barrier function and increased secretion of inflammatory mediators in human intestinal epithelial cells.
Quercetin	Quercetin is a naturally occurring flavonoid with potent antioxidant properties and the ability to support the body's natural anti-inflammatory response. Quercetin has been shown to enhance intestinal barrier functions in human intestinal cells?' Mast cells play an important role in the modulation of the body's inflammatory pathways and permeability of the intestinal mucose. Quercetin has been shown to support healthy regulation of histamine release from human intestinal mast cells. It has also been shown to inhibit gene expression and production of pro-inflammatory cytokines such as tumor necrosis factor-alpha (TNF-alpha), interleukin (IL) 1-beta, IL-6, and IL-8 from human mast cells. Quercetin preserves glutathione levels during oxidative stress. In an animal study, Quercetin decreased cell proliferation and reactive oxygen species in the gastric rnucosa

NAC (N-Acetyl-L- Cysteine)	NAC is an antioxidant, free-radical scavenger, and inhibitor of superoxide generation. As a precursor to the body's own glutathione synthesis, NAC promotes healthy detoxification and healthy balance of microflora. On a cellular level, NAC replenishes intracellular glutathione and helps to maintain the reduced (as opposed to oxidized) biochemical environment in every cell in the body. By supporting Phase II sulfation and GSH conjugation, NAC supports healthy detoxification pathways. Pretreatment with NAC has been shown to support healthy intestinal permeability.
Gingko biloba	Ginkgo biloba is an antioxidant and free radical-scavenger with cytoprotective effects on cells of the gastrointestinal mucosa.sses1 Oral supplementation with ginkgo extract has been shown to support healthy colonic mucosal integrity and modulate cytokine release in experimental models of inflammation. Ginkgo has also been shown to support healthy intestinal permeability and mucosal oxygen supply.

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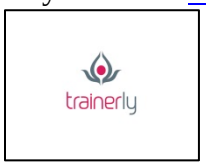

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