PYLORICIL

ORTHO MOLECULAR PRODUCTS®
Because Efficacy Matters®

CLINICAL APPLICATIONS

- *Promotes Healthy Microbial Balance in the GI Tract*
- *Helps Maintain Gastrointestinal Comfort*
- *Soothes the Stomach and GI Tract*

GASTROINTESTINAL HEALTH

Pyloricil is formulated to support the health of the stomach lining and GI tract with unique ingredients that promote microbial balance. Pyloricil provides zinc carnosine, a zinc complex of L-carnosine approved in Japan since 1994 for its use in stomach health; mastic gum, traditionally used to protect the stomach lining and shown in studies to promote microbial balance; bismuth citrate, used to promote normal bacterial growth, and for its soothing action on the gastric and mucosal lining; and berberine sulfate, a compound with microbial-balancing properties.

Overview

The Centers for Disease Control and Prevention estimates that approximately two-thirds of the world's population has stomach microbial balance concerns. While some will never experience discomfort, others may need support. Maintaining healthy microbial balance and a strong immune system is integral to optimal GI health, as well as overall health. In addition, since the body's immune system is a complex and dynamic defense system, healthy microbial balance helps ensure optimal immune function. Research has shown that the natural ingredients in Pyloricil help soothe the stomach lining and GI tract.

Mastic Gum†

Mastic gum is a resinous product which is obtained from the stem and leaves of the mastic tree (*Pistacia lentiscus*). The mastic tree is an evergreen shrub native to the Mediterranean Basin and has historically been used to support the health of the stomach. In a double-blind study, 60 patients randomly assigned to receive mastic (1 g/ day), or placebo, for two weeks demonstrated that mastic gum supported the health of the stomach lining in 78% of the patients in the control group (versus 22% of those receiving placebo).[1] Mastic gum has also been shown to promote healthy microbial balance in the GI tract.[2]

Bismuth Citrate†

Bismuth citrate is a naturally occurring mineral, frequently used to soothe the gastric and mucosal linings.[3] Bismuth citrate also promotes microbial balance in the GI tract.[4] Bismuth citrate offers a key advantage when compared to other bacterial-balancing therapies. While it is very common for bacteria to develop a resistance to various bacterial-balancing agents, it is unlikely they will develop resistance to bismuth citrate.

Zinc Carnosine†

Zinc carnosine has been approved in Japan since 1994 for its use in stomach health. The health-promoting effects of zinc are enhanced significantly when combined with the essential nutrient, carnosine. Japanese scientists have led the way in developing this zinc carnosine compound, which combines zinc and carnosine linked by a chemical bond. Research has demonstrated that zinc carnosine stabilizes the mucosal lining of the stomach and small intestines. In a study examining the effects of zinc carnosine on animal digestive tracts, following exposure to indomethacin or to stress, this nutrient combination was shown to support gastric and intestinal health by stimulating the migration and growth of cells. In the human clinical trial based on the same model, 10 healthy volunteers consumed indomethacin (50 mg three times daily) along with placebo, or zinc carnosine. Indomethacin increased gut permeability (impaired barrier function of the gut's lining)

† 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.

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by a factor of three in the placebo group. As compared to the placebo group, the control group consuming zinc carnosine showed no increase at all in gut permeability.[5]

Berberine Sulfate†

Berberine sulfate is a botanical extract found in the roots and barks of various plants including Oregon grape root *(Berberis aquifolium)*, barberry *(Berberis vulgaris)* and goldenseal *(Hydrastis canadensis)*. Berberine has a long history of use in both Ayurvedic and Chinese medicine. Berberine sulfate has been shown to promote healthy microbial balance in the GI tract and maintain normal inflammatory balance throughout the body.[6]

Directions

1 capsule two times per day or as recommended by your health care professional.

Does Not Contain

Gluten, yeast, artificial colors or flavors.

Cautions

Do not consume this product if you are pregnant or nursing. Consult your physician for further information.

Supplement Facts V2

Serving Size 1 Capsule
Servings Per Container 60

1 capsule contains	Amount Per Serving	%Daily Value
Zinc (as Zinc Carnosine)	8.5 mg	77%
Mastic Gum Extract (*Pistacia lentiscus*)(Resin)	250 mg	*
Berberine Hydrochloride Hydrate	150 mg	*
Bismuth Citrate USP	125 mg	*
Zinc Carnosine	37.5 mg	*

* Daily Value not established

ID# 847060 60 Capsules

References

1. Al-Habbal MJ, Al-Habbal Z, Huwez FU. A double-blinded controlled clinical trial of mastic and placebo in the treatment of duodenal ulcer. *Clin Exp Pharmacol Physiol.* 1984; 11:541-544.
2. Huwez FU, Thirlwell D, Cockane A, Ala'Aldeen DA. Mastic gum kills Helicobacter pylori. *N Engl J Med.* 1998; 339:1946.
3. Cammarota, G., Cannizzaro, O. et al. Five-day regimens containing ranitidine bismuth citrate plus high-dose clarithromycin and either amoxycillin or tinidazole for Helicobacter pylori infection. *Aliment Pharmacol Ther.* 2000; 14(1):73-77.
4. Lambert, J. R. and Midolo, P. The actions of bismuth in the treatment of Helicobacter pylori infection. *Aliment Pharmacol Ther.* 1997; 11 Suppl 1:27-33.
5. Mahmood A, FitzGerald AJ, Marchbank T, et al. Zinc carnosine, a health food supplement that stabilizes small bowel integrity and stimulates gut repair processes. *Gut.* 2007 Feb;56(2):168-175.
6. Monograph: Berberine. *Altern Med Rev.* 2000; 5(2); 175-177.