# Phyto-Shield™

Immune Support

## DESCRIPTION

Phyto-Shield<sup>™</sup>, provided by Douglas Laboratories, contains significant amounts of several key nutrients including echinacea and zinc, specially formulated to aid in immune support.

## **FUNCTIONS**

Native Americans traditionally used echinacea to treat a variety of disorders, primarily infections and other conditions where enhancement of the immune system was needed. Echinacea's therapeutic efficacy was recognized by Western medical science in the late 19th century. Today, echinacea is best known as a non-specific, immuno-supporting botanical.

Zinc is an essential trace element required for the activity of over 300 enzymes and is involved in most major metabolic pathways. Zinc participates not only in catalytic processes, but also in the structure and stability of some regulatory proteins.

Laboratory and clinical studies have shown that Eleutherococcus senticosus increases phagocytosis and stimulates lymphocyte activity in response to biological or physical stress. Preparations of Eleutherococcus increase in vitro granulocyte and monocyte phagocytosis of Candida albicans by over 30%. It has been suggested that Eleutherococcus stimulates the production of interferon, thus enhancing the functioning of macrophages, natural killer cells, and cytotoxic T cells.

Nutrients such as garlic and Korean ginseng can also play important roles in the support of healthy immune function.

### **INDICATIONS**

Phyto-Shield<sup>™</sup> may be a useful dietary supplement for individuals wishing to supplement their diet with nutrients that can aid in immune support.

## FORMULA (#81096)

3 Vegetarian Capsules Contain:	
Zinc (from Zinc Aspartate)	2mg
Astralagus (standardized to .3% astralagosides)	200mg
Echinacea purpurea (standardized to 4% polyphenols)	400mg
Garlic (odor modified)	
Korean Ginseng (Panax ginseng, standardized to 15% ginsenosides)	200mg
Eleutherococcus senticosus (standardized to .8% eleutherosides)	75mg
Proprietary Phyto Shield <sup>™</sup> blend	252mg
Eleutherococcus senticosus, Echinacea purpurea, Beta Carotene and Reishi mushroom extract.	

### SUGGESTED USE

Adults take 3 capsules daily with meals or as directed by a physician.

## 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.

1

# Phyto-Shield™ Immune Support

## REFERENCES

Bespalov VG, Aleksandrov VA, Iaremenko KV, et al. [The inhibiting effect of phytoadaptogenic preparations from bioginseng, Eleutherococcus senticosus and Rhaponticum carthamoides on the development of nervous system tumors in rats induced by N- nitrosoethylurea]. Vopr Onkol 1992;38:1073-80.

Bohn B, Nebe CT, Birr C. Flow-cytometric studies with eleutherococcus senticosus extract as an immunomodulatory agent. Arzneimittelforschung 1987;37:1193-6.

MacDonald, RS. The role of zinc in growth and cell proliferation. J Nutr 2000;130:1500S-8S.

McCall, KA, Huang, C, Fierke, CA. Function and mechanism of zinc metalloenzymes. J Nutr 2000;130:1437S-46S.

Steinmuller C, Roesler J, Grottrup E, et al. Polysaccharides isolated from plant cell cultures of Echinacea purpurea enhance the resistance of immunosuppressed mice against systemic infections with Candida albicans and Listeria monocytogenes. Int J Immunopharmacol 1993;15:605-14.

Tubaro A, Tragni E, Del Negro P, et al. Anti-inflammatory activity of a polysaccharidic fraction of Echinacea angustifolia. J Pharm Pharmacol 1987;39:567-9.

### For more information on Phyto-Shield<sup>™</sup> 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.

© 2013 Douglas Laboratories. All Rights Reserved