

Enzocaine

(Hypoallergenic)



Item # 54730

120 Vegetarian Capsules

The Possible Benefits of Enzocaine, a Dietary Supplement

- Provides nutritional support for connective tissue and joint health*
- Supports regulation within normal levels cyclooxygenase enzymes and other intermediary metabolites*
- Provides antioxidant activity to protect from free radical damage*

Description

Enzocaine combines a synergistic blend of herbs, nutrients, and proteolytic enzymes which provide nutritional support for connective tissue and joint tissue.* These nutrients have been shown to support the body's regulation within normal levels of some intermediary metabolites, such as cyclooxygenase (COX I & II) enzymes, arachidonic acid, lipoxygenase and leukotrienes.*

MSM (methylsulfonylmethane), a major metabolite of DMSO (dimethyl sulfoxide), is a source of biological sulfur, which is a major component in many of the body's proteins, tissues, hormones and enzymes. Sulfur is an essential element of many glycosaminoglycans (GAGs) and is required for the healthy function and structure of joint cartilage.* MSM is a natural constituent of a variety of foods, and is well absorbed and distributed throughout the body. In addition to its support of GAG synthesis and potential support of healthy connective tissue, MSM may enhance the cellular mucosal membranes.*

Indian frankincense (*Boswellia serrata*) is a large, deciduous tree that grows in the dry, hilly countryside of India. The resinous exudate, an oleogum resin called

Salai guggul, has been used for thousands of years in the Ayurvedic (Indian) tradition to support joint and connective tissue health.* Recent clinical trials with boswellia gum demonstrated it has potential to support gastrointestinal health as well.* The active components, boswellic acids, inhibit 5-lipoxygenase's biosynthesis of leukotrienes.

Turmeric from the root of the southern Asian shrub *Curcuma longa* is used extensively for color and flavor in curry cuisine. Ayurvedic herbology also includes turmeric in many formulas.* Turmeric's key constituent, curcumin, inhibits thromboxanes and leukotrienes, as well as cyclooxygenase-2 and nitric oxide synthase.* Curcumin also has antioxidant activity.*

Bromelain, a pineapple proteolytic enzyme, is thought to modulate the arachidonate cascade, helping to promote a healthy prostaglandin balance.* Ginger (*Zingiber officinale*) is used in both Ayurvedic and traditional Chinese herbology.* Ginger's oleoresin constituents exhibit potent inhibition of the synthesis of prostaglandins and leukotrienes.* The components shogaol and paradol inhibit cyclooxygenase-2 enzyme activity dose-dependently, while

*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.

gingerol inhibits 5-lipoxygenase.*

White willow bark (*Salix alba*), a traditional analgesic and antipyretic, contains salicylates, including salicin, and salicylic acid, which is a prime metabolite of aspirin.* Salicylates inhibits cyclooxygenase activity.* White willow bark is generally well tolerated by the human gastrointestinal system.*

Minerals play important roles in antioxidant enzymes. Molybdenum is essential for sulfite oxidase, required for the detoxification of sulfite to sulfate. Optimum activity of this enzyme is required to detoxify xenobiotics.* Selenium is essential for glutathione peroxidase, an important free radical scavenging enzyme. Copper and zinc are essential for superoxide dismutase, another important antioxidant enzyme.

Serving Size: 2 Capsules

Servings Per Container: 60

Amount Per Serving:

Zinc (as Zinc Methionate)	10 mg
Selenium (50% as Sodium Selenite and 50% as Selenomethionine)	40 µg
Copper (as Copper Sebacate)	1 mg
Molybdenum (as Sodium Molybdate)	300 µg
MSM (Methylsulfonylmethane)	500 mg
Indian Frankincense (<i>Boswellia serrata</i>) (Gum) Extract (standardized to 70% Boswellic Acid)	200 mg
Turmeric (Root) Extract (95% Curcumin)	400 mg
Bromelain (3600 MCU/g)	400 mg
Ginger (Root) Extract (5% Gingerol)	40 mg
White Willow (<i>Salix alba</i>) (Bark) Extract (standardized to 15% Salicin)	50 mg

Other ingredients: Hydroxypropyl methylcellulose, cellulose, magnesium stearate.

Suggested Use: As a dietary supplement, 2 capsules one to three times daily, between meals, or as directed by a healthcare practitioner.

References

- | | |
|--|---|
| Childs SJ. Urol Clin North Am 1994;21:85-8. | 2001;15:344-50. |
| Gerhardt H, Seifert F, Buvari P, et al. Z Gastroenterol 2001;39:11-7. | Shah BH, Nawaz Z, Pertani SA, et al. Biochem Pharmacol 1999;58:1167-72. |
| Gupta I, Gupta V, Parihar A, et al. Eur J Med Res 1998;3:511-4. | Shobana S, Naidu KA. Prostaglandins Leukot Essent Fatty Acids 2000;62:107-10. |
| Kriegelstein CF, Anthoni C, Rijcken EJ, et al. Int J Colorectal Dis 2001;16:88-95. | Tegeder I, Pfeilschifter J, Geisslinger G. Faseb J 2001;15:2057-72. |
| Lim GP, Chu T, Yang F, et al. J Neurosci 2001;21:8370-7. | Tjendraputra E, Tran VH, Liu-Brennan D, et al. Bioorg Chem 2001;29:156-163. |
| Rohnert U, Schneider W, Elstner EF. Z Naturforsch [C] 1998;53:241-9. | Zhang F, Altorki NK, Mestre JR, et al. Carcinogenesis 1999;20:445-51. |
| Schmid B, Ludtke R, Selbmann HK, et al. Phytother Res | |



NutriCology®, Inc.
2300 North Loop Road, Alameda, CA 94502
Phone: 800-545-9960 or 510-263-2000
Fax: 800-688-7426 or 510-263-2100
www.nutricology.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.