

E-400

Antioxidant support

DESCRIPTION

E-400, provided by Douglas Laboratories®, contain a vitamin E formula of natural-source d-alpha tocopheryl acetate which assures antioxidant support.

FUNCTIONS

Vitamin E is one of the body's most important antioxidant nutrients. Antioxidants protect healthy cells from oxidative and free radical damage. Free radicals are unstable chemicals formed in the body during metabolism and from exposure to environmental sources. Free radicals are necessary for energy metabolism and immune function, but when an excessive number of free radicals are formed, they can attack healthy cells, especially cell membrane lipids and proteins. Vitamin E is an especially valuable antioxidant in the cell membranes, where it prevents oxidation of unsaturated fatty acids by trapping free radicals. This helps stabilize and protect cell membranes, especially red blood cells and tissues sensitive to oxidation, such as the lungs, eyes, and arteries. † Vitamin E also supports the liver and other physiological processes. † Related to its antioxidant properties, vitamin E is important for normal immune function, and many studies show that it prevents lipid peroxidation of blood lipoproteins, such as LDL-cholesterol. †

Intestinal absorption of vitamin E is associated with fat absorption. Some dietary fat must be present for efficient vitamin E absorption to occur. Studies show that natural d alpha tocopherol is more efficiently absorbed and has significantly higher bioavailability than synthetic dl-alpha tocopherol. Once absorbed, vitamin E is transported into the circulatory system via chylomicrons, and then transferred to VLDL, LDL and HDL particles. Tissues slowly accumulate vitamin E from these plasma lipoproteins. Liver and adipose tissues have the highest concentrations, but muscle also accounts for a large proportion of vitamin E stores in the body.

INDICATIONS

E-400 may be a useful dietary supplement for those who wish to increase their daily intake of vitamin E in its potent, natural form.

FORMULA (#7098)

Each Softgel Capsule Contains:

Vitamin E, 400 I.U.

(as d-alpha Tocopheryl Acetate)

SUGGESTED USE

Adults take 1 softgel daily or as directed by a healthcare professional.

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.

REFERENCES

Han SN, Meydani SN. Expert Rev Clin Immunol. 2006 Jul;2(4):561-7. doi: 10.1586/1744666X.2.4.561.

Leichtle A, Teupser D, Thiery J. J Am Coll Nutr. 2006 Oct;25(5):420-8.

Chew EY, et al. Ophthalmology. 2013 Aug;120(8):1604-11.e4.

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Ji H, Sun Y, Shen L. Nutrition (Burbank, Los Angeles County, Calif.) [serial online]. September 2014;30(9):986-991.

Tug T, Karatas F, Terzi SM. Clin Invest Med. 2004 Jun;27(3):123-8.

Kashanian M, Lakeh MM, Ghasemi A, Noori S. J Reprod Med. 2013 Jan-Feb;58(1-2):34-8.

Ziaei S, Kazemnejad A, Sedighi A. Med Sci Monit. 2009 Jan;15(1):CR16-9.

Proteggente A, Turner R, Lodge J, et al. The Journal Of Nutrition [serial online]. May 2005;135(5):1063-1069.

Ascherio A, Rimm EB, Hernan MA, et al. Ann Intern Med 1999;130:963-70.

Brigelius-Flohe R, Traber MG. Faseb J 1999;13:1145-55.

Davey PJ, Schulz M, Gliksman M, et al. Cambridge Heart Antioxidant Study. Am J Cardiol 1998;82:414-7.

Devaraj S, Li D, Jialal I. J Clin Invest 1996;98:756-63.

Hartmann A, Niess AM, Grunert-Fuchs M, et al. Mutat Res 1995;346:195-202.

Heck AM, DeWitt BA, Lukes AL. Am J Health Syst Pharm 2000;57:1221-7; quiz 1228-30.

Jacques PF. Int J Vitam Nutr Res 1999;69:198-205.

Kimmick GG, Bell RA, Bostick RM. Nutr Cancer 1997;27:109-17.

Meydani SN, Meydani M, Blumberg JB, et al. Am J Clin Nutr 1998;68:311-8.

Miller JW. Nutr Rev 2000;58:109-11.

For more information on E-400 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.

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