Please Copy for Your Patients

# Cataplex E Combines Vitamin E With Selenium to Provide Powerful Antioxidant Protection

Large bodies of animal and human research support the idea for the need to increase antioxidants in our daily diet. Both vitamin E and selenium are powerful antioxidants that can help keep the heart, lungs, and liver healthy. Some vitamins and minerals work more efficiently and provide greater benefit for the body when they partner with another vitamin or mineral. Vitamin E is one such vitamin that works synergistically with selenium, a trace mineral. While each substance stands fully capable of destroying harmful free radicals on its own, research strongly suggests that their combined efforts yield even greater results at the cellular level. Both vitamin E and selenium share the primary responsibility of preventing lipid oxidation. Together, they also enhance immune function by reducing the formation of free radicals and by assisting in antibody production. Selenium intensifies vitamin E absorption, thereby increasing their combined influence on helping to maintain cellular health.†

# How Cataplex E Keeps You Healthy

## Provides strong antioxidant defense

The free radicals generated by the body in response to exposure to various stresses are important to the immune arsenal. However, when free radicals are generated in excess, they can cause severe damage to normal tissues and healthy cells. Antioxidants are substances that neutralize free radicals by attaching to their free electrons. By inhibiting excessive free radical proliferation, antioxidants like selenium and vitamin E help detoxify and protect the body from free radical damage.†

### Maintains cellular health

Vitamin E promotes healthy cellular membranes by helping to prevent oxidation of their protective coating. Selenium, in addition to its primary role as a strong antioxidant, seems to play a secondary role in boosting DNA repair mechanisms, while at the same time, slowing down the rate of cell mitosis.†

#### **Enhances immune function**

The chain of events caused by free radical generation that is out of control alters the manner in which cells code their genetic information. Even a small change in the way proteins are structured within the cells can cause the immune system to identify them as foreign objects and attack, in an attempt to destroy these mutated structures. This breakdown in cellular communication weakens the immune system. Selenium and vitamin E help protect the immune system.†



Introduced in: 1934 Content:

90 Tablets - 3775 360 Tablets - 3825

# Supplement Facts:

Serving Size: 2 tablets Servings per Container: 45 or 180

 Calories
 3

 Vitamin E
 5 IU
 15%

 Selenium
 11 mcg
 15%



# Cataplex® E

# What Makes Cataplex E Unique

# **Unique Product Attributes**

#### Multiple nutrients from a variety of plant and animal sources

- The concentrates of the vitamin E complex from soybeans and pea vine juice are combined with bovine orchic tissue, a nutritional synergist
- Extracts from bovine and ovine tissues provide nutrients and support to the corresponding tissues in humans
- Vitamins, minerals, and nutrients from plants and animal tissues work synergistically for maximum effect+

# Certified Organic Farming

A healthy ecosystem is created by using organic farming techniques, such as rotating crops, fertilizing the soil with nutrient-rich cover crops and by-products from our processing, practicing strict weed control standards, and continually monitoring the health of our plants

- · Assures the soil is laden with minerals and nutrients
- Ensures plants are nutritionally complete and free from synthetic pesticides

# Unique Processing

#### Upon harvesting, nutrient-rich plants are immediately washed and promptly processed

· Preserves nutritional integrity

### Exclusive low-temperature, high-vacuum drying technique

Preserves the enzymatic vitality and nutritional potential of ingredients

#### Not disassociated into isolated components

• The nutrients in Cataplex E are processed to remain intact, complete nutritional compounds

# Degreed microbiologists and chemists in our on-site laboratories constantly conduct bacterial and analytical tests on raw materials, product batches, and finished products

Ensures consistent quality and safety

## Vitamin and mineral analyses validate product content and specifications

Assures high-quality essential nutrients are delivered

Studies on nutrients generally use large doses and these studies, some of which are cited below, are the basis for much of the information we provide you in this publication about whole food ingredients. See the supplement facts for Cataplex® E.

Anderson LE. 1998. Mostby's Medical, Nursing & Allied Health Dictionary. 5th ed. 5t. Louis, Mo. Mosby. 1469, 1717.

Balch J.F., Balch P.A. 1997. Prescription for Nutritional Healing. 2nd ed. Garden City Park, NY: Avery Publishing Group: 19-20, 28, 43-46.

Barceloux D.G. 1999. Selenium. Journal of Toxicology Clinical Toxicology 37(2): 145-172.

Beckett G.J., et al. 1993. Effects of combined iodine and selenium deficiency on thyroid hormone metabolism in rats. American Journal of Clinical Nutrition 57(2 Suppl): 2405-2435.

Behl C. 1999, Vitamin E and other antioxidants in neuroprotection, International Journal of Vitamin and Nutrition Research 69(3): 213-219

Berger M.M., et al. 1996. Copper, selenium, and zinc status and balances after major trauma. Journal of Trauma 40(1): 103-109.

Berger M.M., et al. 1998. Trace element supplementation modulates pulmonary infection rates after major burns: a double-blind, placebo-controlled trial. American Journal of Clinical Nutrition 68(2): 365-371. Burk R.F., ed. 1994. Selenium in Biology and Human Health. Berlin, Germany: Springer-Verlag: 3-7,47,81-82,95-96,104-105,106-109,153-154,

171-173, 183-185, 213-215.
Burkitt D.P., Temple N.J., eds. 1994. Western Diseases, Their Dietary Prevention and Reversibility. Totowa, NJ: Humana Press: 96-97, 199-200, 210-211, 215-218, 224-227

211, 215-218, 224-227.
Card J.W., et al. 1999. Effects of dictary vitamin E supplementation on pulmonary morphology and collagen deposition in amiodarone- and vehicle-treated hamsters. Toxicology 133(2-3): 75-84.
Clark L.C. 1985. The epidemiology of selenium and cancer. Fed Proc 44(9): 2584-2589.
Clark L.C., et al. 1998. Decreased incidence of prostate cancer with selenium supplementation: results of a double-blind cancer prevention trial. British Journal of Unology 81(5): 730-734.
Combs G. F. cit. 1997. Reduction of cancer mortality and incidence by selenium supplemenation. Med Klin 92(Suppl 3): 42-45.
Combs G. F. Gray W.P. 1998. Chemopreventive agents: selenium. Pharmacological Therapy 19(3): 179-192.
Dreosti L.E., ed. 1991. Trace Elements, Micronutrients, and Free Radicals. Totowa, NJ: Humana Press. 185-186.
Heshner N.F., Klota L.H. 1998-1999. Dect, androgens, oxidative stress and prostate cancer susceptibility. Cancer Metastasis Review 17(4): 325-330.
Holben D.H., Smith A.M. 1999. The diverse role of selenium within selenoproteins: a review. Journal of the American Dietetic Association 99(7): 836-843.

Ilback N.G., et al. 1998. Effects of selenium supplementation on virus-induced inflammatory heart disease. Biological Trace Element Research 63(1):

Ip C. 1998. Lessons from basic research in selenium and cancer prevention. Journal of Nutrition 128(11): 1845-1854.

Ip C., et al. 1996. Selenium-enriched garlic inhibits the early stage but not the late stage of mammary carcinogenesis. Carcinogenesis 17(9): 1979-

Kauf E., et al. 1997. Selenium in phenylketornuria patients. Effects of sodium selenite administration, Med Klin 92(Suppl 3): 31-34.

Kohrle J. 1999. The trace element selenium and the thyroid gland. Biochimie 81(5): 527-533.

Kralik A., et al. 1996. Influence of zinc and selenium deficiency on parameters relating to thyroid hormone metabolism. Hormone Metabolism. Research 28(5): 223-226.

Rucera M, et al. 1998. Significance of free radicals in the pathogenesis of theumatic diseases and possibilities of decreasing their pathogenic effects. Vnitr Lek 44(12): 702-706.

Kvicala J. 1999. [Selenium and the organism]. Cas Lek Cesk 138(4): 99-106.

Kvicala, I. 1999. [Sclerium and the organism]. Cas Lek Cesk 138(4): 99-106.
 Larsen P.R., Berry M.J. 1995. Nutritional and hormonal regulation of thyroid hormone deiodinases. Annual Review of Nutrition 15: 323-352.
 Lee B.M., et al. 1998. Inhibition of oxidative DNA damage, 8-OhdG, and carbonyl contents in smokers treated with antioxidants (vitamin E. vitamin C. beta-carotene and red ginseng). Cancer Letter 132(1-2): 219-227.
 Miner J.A. 1985. Effect of sectionium on virally induced and transplantable tomor models. Fed Proc 44(9): 2568-2572.
 Minicro R., et al. 1998. Effects of the combined deficiency of selenium and iodine on thyroid function]. Ann Ist Super Sanita 34(3): 349-355.
 Morrissey P.A., Sheehy P.J. 1999. Optimal nutrition vitamin E. Proc Nutr Soc 58(2): 459-468.
 Nelson M.A., et al. 1998. Selenium and prostate cancer prevention. Semin Urol Oncol 17(2): 91-96.
 Oldereid N.B., et al. 1998. Selenium in human male reproductive organs. Human Reproduction 13(8): 2172-2176.
 Pitchford P. 1993. Healing with Whole Foods. Revised ed. Berickey, CA: North Adantic Books: 44-65, 122, 357, 363, 490.
 Prasad K.N., Cole W.C., eds. 1998. Cancer and Nutrition. Washington, DC: 10S Press: 10-15, 71-89, 176, 213-218, 232.
 Botti E., et al. 1999. Selenium administration does not cause thyroid insufficiency in subjects with mild iodine deficiency and sufficient selenium intake. Journal of Endocrinology Investigation 16(7): 481-484.
 Shi B., Spallholz JE. 1994. Selenium from beef is highly bioavailable as assessed by liver glutathione peroxidase (EC 1.11.1.9) activity and tissue selenium. British Journal of 1878-878-81.

selenium. British Journal of Nutrition 72(6): 873-881

Section. Design Journal of National 2(0): 635-661.

Spencer A. P. et al. 1999. Vitamin E and coronary artery disease. Archives of Internal Medicine 159(12): 1313-1320.

Thompson I.M., et al. 1997. Chemoprevention of prostate cnacer: the Prostate Cancer Prevention Trial. Prostate 33(3): 217-221.

Vendittl, et al. 1999. Protection against ischemia-reperfusion induced oxidative stress by vitamin E treatment. Archives of Physiological Biochemistry 107(1): 27-34.

Wendel A., ed. 1988. Selenium in Biology and Medicine. Berlin, Germany: Springer-Verlag: 142-149, 205-208, 210-212, 214-217, 297-303, 305-310; 313-316, 317-322.

Wilber C.G. 1983. Selenium, A Potential Environmental Poison and a Necessary Food Constitutuent. Springfield, IL: Charles C. Thomas Publisher: 63-

Willett W. 1998. Nutritional Epidemiology. 2nd ed. New York, NY: Oxford University Press, Inc. 24-25, 184-188, 195-197, 206-207, 448-449, 451. Wohl M., Goodhart R., eds. 1968. Modern Nutrition in Health and Disease. 4th ed. Philadelphia, PA: Lea & Pebiger, 238-245, 395-397, 475.
World Health Organization. Trace Elements in Human Nutrition and Health: 1996. Geneva, Switzerland: World Health Organization: 105-120.
Voshizzawa K. et al. 1998. Study of prediagnostic selenium level in toenails and the risk of advanced prostate cancer. Journal of the National Cancer Institute 90(16): 1219-1224.

Whole Food Philosophy

Dr. Lee challenged common scientific beliefs by choosing a holistic approach of providing nutrients through whole foods. His goal was to provide nutrients as they are found in nature-in a whole food state where he believed their natural potency and efficacy would be realized. Dr. Lee believed that when nutrients remain intact and are not split from their natural associated synergists-known and unknown-bioactivity is markedly enhanced over synthetic nutrients. Following this philosophy, even a small amount of a whole food concentrate will offer enhanced nutritional support, compared to a synthetic or fractionated vitamin. Therefore, one should examine the source of nutrients rather than looking at the quantities of individual nutrients on product labels.

Proprietary Blend: Bovine orchic extract, inositol, dried pea (vine) juice, ribonucleic acid, oat flour, bovine adrenal, beet (root), bovine spleen, ovine spleen, beet (root) juice, bovine liver, manganese lactate, and ascorbic acid.

Other Ingredients: Honey, selenium yeast, potassium para-aminobenzoate, mixed tocopherols (soy), calcium stearate, and arabic

Suggested Use: Two tablets per meal, or as

Sold to health care professionals.