

Pro-E400[®]

(Vitamin E & Evening Primrose Oil Capsules)

Composition:

Information (Approximate Values)

Each Serving : One capsule contains:

Energy.....	5.434kcal
Protein	0.034g
Fat.....	0.756g
Carbohydrate	0.053g

Vitamin E400 mg

Evening Primrose Oil 500 mg

Clinical Pharmacology:

Vitamin E:

Vitamin E work as a peroxy radical-scavenging molecule and to inhibit lipid peroxidation. Vitamin E helps protect cell membranes. It also helps maintain the immune system, prolong the life of red blood cells, maintain a healthy circulatory system and facilitate the body's full utilization of vitamin A. Vitamin E is found in all body tissues and is important for their health and proper functioning. Vitamin E is an antioxidant and is considered to play a role in neutralizing free radicals. These highly reactive molecules are found in the body as a result of normal body processes and from external factors such as environmental pollution. Oxidative damage caused by these reactive molecules is considered to contribute to aging and age-related chronic diseases such as cataracts, heart disease and cancer.

Vitamin E is the most commonly used vitamin for the management of cyclical Mastalgia where a potential role as an antioxidant. The biological function and localization of Vitamin E in membranes protects tissue against the harmful effects of free radicals generated during normal metabolic processes such as steroid hormone synthesis.

Evening Primrose Oil (EPO):

The seeds of the evening primrose are rich in omega-6 essential fatty acids (EFAs), including linoleic acid and gamma-linolenic acid (GLA). The therapeutic effects of E PO are attributed to the direct action of its component E FAs on immune cells,³ as well as their indirect effect on the synthesis of eicosanoids (e.g., prostaglandins, cytokines, cytokine mediators).⁴ Dietary omega-3 and omega-6 E FAs can reduce the effects of highly unsaturated fatty acids in tissues and eicosanoid actions, which have been implicated in various inflammatory and immunologic pathogenesis. EPO is an essential fatty acid (EFA) used empirically by many women to reduce cyclical mastalgia. EPO is a rich source of EFAs and contains 7-14 percent gamma-linolenic acid (GLA). Its mechanism of action is thought to involve inhibition of prostaglandins that potentially contribute to breast pain. Dietary GLA is metabolized to dihomo-gamma-linolenic acid (DGLA), which can inhibit synthesis of arachidonic acid metabolites and exert an anti-inflammatory effect.⁹ Investigators postulate that women with breast pain have low plasma levels of EFAs, including GLA and the immediate precursor of the prostaglandin E1 series of prostanoids.^{2,10} A deficiency of EFAs may cause hypersensitivity of breast epithelium to circulating hormones.¹⁰ Dietary supplementation with GLA, as a rich source of EFAs, has been suggested to treat these deficiency syndromes.

Indication:

- ❖ As an antioxidant.
- ❖ To promote healthy skin & hair growth.
- ❖ To maintain healthy heart & lipid function.
- ❖ In Non Alcoholic Steato Hepatitis.
- ❖ In gynecological problems such as PreMenstrual Syndrome, Breast fibroadenomas.
- ❖ For Improvement of Skeletal muscle function/Reduces Joint pain.

Adverse effects:

Minor gastrointestinal adverse effects, including abdominal pain, nausea, increased bowel movements, diarrhea, headache.

Usages: 1-2 capsules daily after meal. To be used as dietary supplement.

SCHEDULE G PRESCRIPTION DRUG- CAUTION it is dangerous to take this preparation except under medical supervision.

Storage: Store in a cool, dry & dark place. Protect from light & moisture.

Dietary food supplement.

Route of administration : Oral

Presentation: Pro-E400 is available as 10 x 1 x 10 Capsules.

Marketed By:



EPIONE PHARMACEUTICALS PVT.LTD.

804, Suyog Center, Gultekdi, Pune-411037 (MH), India

