

PROTOBEX

Composition

Each 5 ml of **PROTOBEX Syrup** contains:

Soya protein hydrolysate (20%)	2.5 gm
Elemental iron (as iron choline citrate)	5 mg
Vitamin B ₁₂	1.67 µg
Vitamin B ₁	0.84 mg
Vitamin B ₂	0.84 mg
Vitamin B ₆	0.5 mg
Niacinamide	8.33 mg
D-Panthenol	1.67 mg
Zinc Sulphate equivalent to zinc	2.5 mg
Vitamin E	2.5 mg

Pharmacology

Nutrition may be defined as the science of food and its relationship to health. It is concerned primarily with the part played by nutrients in body growth, development and maintenance. The word protein by derivation means that which is of first importance. Proteins are needed by the body for body-building, repair and maintenance of body tissues, maintenance of osmotic pressure and synthesis of certain substances like antibodies, plasma proteins, haemoglobin, enzymes, hormones and coagulation factors. Proteins are also useful source of energy when the calorie intake is inadequate.

Only a few mineral elements are associated with clearly recognizable clinical situations in man, and iron is one of them. Iron is necessary for many functions in the body including formation of haemoglobin, brain development and function, regulation of body temperature, muscle activity and catecholamine metabolism. Lack of iron directly affects the immune system, besides haemoglobin.

Zinc is a component of many enzymes. It is active in the metabolism of glucides and proteins, and is required for the synthesis of insulin and for the immune function. Zinc deficiency has been reported to result in growth failure and sexual infantilism in adolescents, and in loss of taste and delayed wound healing. There are reports of low circulating zinc levels in clinical disorders such as liver disease, pernicious anemia and myocardial infarction. These reports suggest that zinc deficiency may not be uncommon in man. Generally, growing children, and pregnant and lactating women tend to require higher quantities of zinc.

Oral supplements of vitamins are indicated in the conditions associated with an increased risk for vitamin deficiency. Such situations may arise from inadequate intake, malabsorption, increased tissue needs, or inborn errors of metabolism. In practice these cause may overlap, as in the case of the alcoholic who may have both inadequate food intake and impaired absorption.

Gross vitamin deficiencies due to inadequate intakes are encountered in underdeveloped areas of the world. Data from various surveys show that individuals living below the poverty level, particularly the elderly and ethnic minorities may have a substantially greater risk of inadequate intake of some vitamins, especially vitamins of B group.

The impact of disease on the requirement of nutrients may vary according to its phase and intensity. The need for therapy with nutrients may change throughout the course of illness. Finally, an increasing number of cases are recorded in which genetic abnormalities lead to an increased need for nutrients.

Antioxidants like Vitamin E protect against oxidative stress and accelerate the speed of recovery after surgery, shock, and trauma and are beneficial in all other kind of physically demanding conditions.

Indications

PROTOBEX Syrup is a nutritive supplement indicated in growing children, pregnant and lactating women, underweight and malnourished patients, and post-operative care and during convalescence.

Contraindications

The use of **PROTOBEX** is contraindicated in patients with hypersensitivity to any of the ingredients of the formulation.

Precautions

There are no known restrictions to the use of **PROTOBEX Syrup**.

Pregnancy & Lactation

PROTOBEX Syrup may be used during pregnancy and lactation.

Drug Interactions

The data on drug interactions with **PROTOBEX Syrup** is not available.

Adverse Reactions

No adverse reactions have been reported with the use of **PROTOBEX Syrup**.

Dosage & Administration

The usual recommended dose of **PROTOBEX Syrup** in adults is 1 tablespoonful (15 ml), after meal, twice daily.

The usual recommended dose of **PROTOBEX Syrup** in children is 1-2 teaspoonful (5-10 ml), after meal, twice daily.

Presentation

PROTOBEX is available in a bottle of 200 ml.