

TOTAL ENZYMES

Ingredients: 4,500 DU Amylase; 15,000 HUT Protease; 65 IU Lipase; .25 IAU Invertase; 150 DPI Malt Diastase; 200 LacU Lactase; 60 CU Cellulase, in a base of pure beet root fiber.

Supportive Function: Gentle, fast-acting plant enzymes assist in the normal breakdown of food that is necessary to extract vital nutrients from our diet. Often a pancreatic insufficiency limits the optimal utilization of essential vitamins, minerals, and other nutrients. Ideally, food should be completely broken down to assure that macromolecules do not pass into the system. Plant enzymes work in various pH environments, increasing their effectiveness along the gastrointestinal tract.

When are plant enzymes helpful? High-potency, plant-digestive enzymes are highly suggested to enhance digestion. They are extremely well tolerated, work in a wide range of pH environments (for the entire intestinal tract), and optimize the breakdown of food. Complete breakdown of food eliminates multiple allergen sources, and provides support for allergy-related conditions such as eczema.

Clinical Applications/Research: Amylase: Amylase breaks down large carbohydrates (starches and other polysaccharides) to disaccharides including sucrose, lactose and maltose. (Shils and Young, Modern Nutrition in Health and Disease, Lea & Febiger, Philadelphia, PA, 1988)

Protease: Protease breaks down long protein chains (polypeptides) into single amino acids (Shils and Young, Modern Nutrition in Health and Disease, Lea & Febiger, Philadelphia, PA, 1988)

Lipase: Lipase digests fats (triglycerides) into free fatty acids and glycerol. (Shils and Young, Modern Nutrition in Health and Disease, Lea & Febiger, Philadelphia, PA, 1988).

Invertase: Invertase is a concentrated source of disaccharidase enzymes. Invertase breaks down the disaccharide sucrose (refined table sugar) into glucose and fructose. The American diet contains high amounts of refined sugar. The inability to break the sugar down may contribute to digestive distress and may be a contributing factor in food allergies. Supplemental invertase will increase the assimilation and utilization of this sugar.

Malt Diastase: Malt diastase assures the breakdown of starch into maltose and then into glucose molecules, allowing greater absorption of this energy-giving sugar.

Lactase: Lactase deficiency is a common and well-known form of carbohydrate intolerance. Lactase digests lactose (milk sugar) into glucose and galactose. Lactase activity declines as we age, which causes maldigestion of milk and other lactose-containing foods. Approximately 70% of the world's population are deficient in lactase and are therefore unable to digest dairy products.

Cellulase: Cellulase is not found in humans, but it aids in breaking the bonds found in the fiber matrices which envelope most of the nutrients in plants. Cellulase increases the nutritional value of fruits and vegetables.

Beet Root Fiber: Beets aid in gallbladder function, lymphatic function and digestion. Red beetroot is excellent for liver and biliary detoxification.

Testimonials/Nutrient Tidbits: Michael McCann, M.D., describes his success with enzyme supplementation on a 37 yr. old woman with life long eczema, intermittent diarrhea and weight loss. In an abstract presented to the 1992 Food Allergy Symposium sponsored by the American College of Allergy and Immunology, he reports that supplementation resulted in a, “complete clinical remission and resolution of eczema for the first time in her adult life. She was also able to discontinue all other drugs” (from Crook, William G., The Yeast Connection Handbook. Professional Books, Inc. Jackson, Tenn. 1996 p. 172).

A doctor reports...It “never misses”. An osteopath came to see me and couldn’t move her neck (it was fused). After 2 weeks using Total Enzymes and Core Level Bone Matrix, her neck was moving freely. (Sylvia Flesner, N.D. Englewood, CO.)

Another doctor reports...Total Enzymes is my favorite product, and I much prefer it to other brands. It works very well! (Alex Rowell, DC, Fort Morgan, CO.)

Suggested Dosage: 1-2 tablets 3 times with meals or as directed

Size: 60 or 120 tablets

Vegetarian: Yes

Contraindications: None known.