

GLUTEN-FREE • VEGETARIAN • NON-GMO

HIGH POTENCY • VEGETARIAN
DIGESTIVE ENZYMES
 AND HERBS

PIONEER Digestive Enzymes and Herbs combines potent, full-spectrum vegetarian digestive enzymes with concentrated, traditional digestive herbs. This two-in-one combination is clinician-designed to support and strengthen digestion, and to help the body work more efficiently on its own.

Raw food naturally contains the proper types and proportion of enzymes to assist in its own digestion. Food enzymes are released by the action of chewing, which ruptures the food's cell membranes. Like salivary enzymes, raw food enzymes play an important role in human digestion by predigesting food in the upper stomach, where contents may sit for as long as an hour before gastric secretions begin their action.

Since enzymes are essentially destroyed at 118° F, most forms of cooking and industrial food preparation render food devoid of enzyme activity. This places the full burden of digestion on body processes and reserves. In time, this burden can weaken or overwhelm an individual's ability to process and absorb vital food nutrients. Many health professionals believe that the prevalence of cooked and processed foods in modern society makes supplementation with digestive enzymes essential. Digestive enzymes also may be of benefit to those who suffer from clinical disorders of digestion and absorption.

CONSIDER THESE ADVANTAGES:

1. Comprehensive Plant-Source Enzymes. Unlike supplemental enzymes of animal origin, plant enzymes such as those found in PIONEER *Digestive Enzymes and Herbs* work at the pH found in the upper stomach. Plant enzymes are active in the pH range of 3.0 to 9.0, facilitating early and more complete digestion to improve food nutrient utilization.

2. Full Spectrum Activity. PIONEER *Digestive Enzymes and Herbs* contains enzymes that act on all the food types. *Proteases* break long protein chains (polypeptides) into smaller amino acid chains and eventually into single amino acids. *Amylases* reduce large carbohydrates (starches and other polysaccharides) to disaccharides such as sucrose, lactose and maltose. *Lipases* digest fats (triglycerides) into free fatty acids and glycerol. *Cellulases* (not found in the human system) help digest the fibrous cell walls of plants, exposing nutrients for use in the body and increasing their bioavailability.

3. Enzymes for Lactose and Other Sugars. Each class of carbohydrate-rich food requires a specific type of enzyme for its digestion. When the body is unable to secrete sufficient levels of such enzymes, malabsorption and physical discomfort may result. PIONEER *Digestive Enzymes and Herbs* provides a concentrated source of important carbohydrate-specific enzymes.

Lactase separates lactose (milk sugar) into glucose and galactose. Lactase levels in the body decline as we age, and it is estimated that over 30% of Americans are entirely unable to digest milk products. Supplemental lactase has been found to decrease the symptoms associated with dairy sensitivity. *Invertase* helps break down *sucrose* (refined table sugar) into glucose and fructose. *Glucoamylase* and *malt diastase* help separate *maltose* (from grains and starchy vegetables) into individual glucose molecules, enabling increased absorption.

4. Traditional Digestive Herbs. High quality whole powders and extracts of traditional digestive herbs truly distinguish PIONEER *Digestive Enzymes and Herbs* from other enzyme products. The formula provides a blend of herbal *carminatives* (for gas and bloating), *bitters* (to stimulate digestive enzymes and secretions) and *digestive tonifiers* (to help strengthen, soothe and normalize digestive membranes.) *Each capsule contains the equivalent of 595 mg of raw herb.*

Ginger (a classic tonic bitter and digestant) and *Artichoke* help to support the liver and gallbladder, as does *Gentian*, perhaps the most bitter of the herbal gastric stimulants. *Peppermint oil* and *Fennel* have been used for centuries to soothe digestion and reduce gas and bloating. *Capsicum* (red pepper) augments the absorption of herbs and other nutrients.

5. True Full-Disclosure Labeling. All ingredients, their forms, and ratios are fully disclosed on the label of every PIONEER product. Read the label!

Take With Meals		AMOUNT		AMOUNT	
Serving Size 1 capsule		PER SERVING	%DV	PER SERVING	%DV
Bottles of 60 or 120 capsules					
Digestive Enzymes				Standardized Herbal Extracts	
for Protein: Protease	30,000 HUT*	...	...	Artichoke leaf	
for Fat: Lipase	300 FCCLU	...	...	<i>Cynara scolymus</i> (2% cynarin)	25 mg ...*
for Carbohydrate:				Peppermint leaf <i>Mentha piperata</i>	
Amylase	7,500 DU	...	...	(4% essential oil)	25 mg ...*
Glucoamylase	26.25 AGU	...	...	Herbal Extract Concentrates	
Invertase	0.375 IAU / 187.5 SU	...	...	Fennel seed 4:1 <i>Foeniculum vulg</i>	30 mg ...*
Malt Diastase	375 DP*	...	...	Gentian root 5:1 <i>Gentiana lutea</i>	25 mg ...*
for Milk Sugar: Lactase	150 ALU	...	...	Powdered Herbs	
for Fiber: Cellulase	225 CU	...	...	Ginger root <i>Zingiber officinalis</i>	100 mg ...*
				Capsicum fruit annuum & frutes	15 mg ...*

* Daily Value (DV) not established
 • All measures of enzyme activity are stated in Food Chemical Codex Units.
 Do not use if you experience heartburn, ulcers, acidity, or if pregnant.
 Other ingredients: vegetarian capsule (cellulose), silica, magnesium stearate. THIS VEGETARIAN PRODUCT CONTAINS NO gluten, wheat, yeast, corn, soy, added preservatives, colors or flavors, and no toxic levels of heavy metals. Enzyme source: aspergillus oryzae species. NATURAL MANUFACTURING AGENTS ONLY. :100

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.