

# Digestive Enzymes

With Betaine



## DESCRIPTION

Digestive Enzymes with Betaine is a natural dietary digestive supplement specifically formulated with bile, active digestive enzymes, and betaine which acts synergistically to assist in the healthy functioning of fat, protein, and carbohydrate digestion.

## FUNCTIONS

The pancreas supplies the major digestive enzymes that catalyze the breakdown of fats, carbohydrates, and protein so that the breakdown products can be absorbed in the upper small intestine. Although fat digestion starts in the mouth with salivary lipase, most triglycerides are digested by pancreatic lipase, which is secreted by the exocrine pancreas into the duodenum of the intestine. Pancreatic lipase cleaves triglycerides into monoglycerides and free fatty acids, which are efficiently absorbed in the upper small intestine.

Some carbohydrate digestion takes place in the mouth by salivary amylase, but pancreatic amylase is the major carbohydrate-digesting enzyme. It breaks down starches into maltose and maltotriose, which are further hydrolyzed into glucose by the disaccharidases of the mucosal cells, and then absorbed.

Protein digestion is initiated in the stomach by pepsin and hydrochloric acid, which denature and divide large proteins into smaller polypeptides. The addition of betaine in this formulation helps existing stomach acid better digest proteins as they enter the stomach. The pancreatic proteinases, trypsin and chymotrypsin, break down these polypeptides into free amino acids, and di- or tri-peptides, which are directly absorbed by the intestinal mucosa.

Digestive Enzymes with Betaine provides high levels of catalytically active pancreatic enzymes that are specific for fats, carbohydrates, and proteins.

Bromelain acts to help prevent allergens from crossing the gastrointestinal tract, and assists in the breakdown of large macromolecular protein complexes. This reduces the chance that these complexes will leave the stomach untouched or in large fractions retaining their recognizable antigenic form that could pass through gastric or intestinal lesions thereby inducing an allergenic response.

## INDICATIONS

Digestive Enzymes with Betaine may be a useful nutritional adjunct for individuals who wish to supplement their diets with digestive enzymes.

## FORMULA (N.W. #10315)

### Two Tablets Contain:

Betaine Hydrochloride .....	330 mg
Pepsin 1:15,000.....	130 mg
Bromelain 1:10.....	260 mg
(pineapple [ <i>Ananas comosus</i> fruit] enzyme)	
Papain NF.....	260 mg
(papaya [ <i>Carica papaya</i> ] enzyme)	
Ox Bile Extract .....	260 mg
Pancreatin USP 4x .....	500 mg
Amylase.....50,000 USP units	
Protease.....50,000 USP units	
Lipase.....8,500 USP units	

Other ingredients: Dicalcium phosphate, cellulose, stearic acid, cellulose gum, fennel seed, silica, peppermint leaf, and magnesium stearate.

This product contains NO sugar, salt, dairy, yeast, wheat, corn, soy, preservatives, artificial colors or flavors.

## SUGGESTED USE

Adults take two tablets at mealtime, or as directed by a healthcare professional.

## SIDE EFFECTS

Warning: Do not take if you suffer from gastric ulcers, gastritis, or persistent abdominal pain. Not recommended for children under 12.

## STORAGE

Store in a cool, dry place. Keep out of reach of children.

Manufactured For:

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