

# Pan-Ox-5™

## A complete dietary enzyme formula

### DESCRIPTION

Pan-Ox-5™, provided by Douglas Laboratories, is a synergistic dietary enzyme formula that is specially formulated for digestive support.

### FUNCTIONS

The pancreas supplies the major digestive enzymes that catalyze the breakdown of starches (carbohydrates), proteins, and fats, so that the breakdown products can be 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. Amylases break down starches to maltose and maltotriose, which are further hydrolyzed into glucose by the disaccharidases of the mucosal cells, and then absorbed. Although cellulose is indigestible by pancreatic and intestinal enzymes, the microflora within the large intestine may degrade it and produce uncomfortable symptoms in the process.

Although fat digestion starts in the mouth with the action of salivary lipase, the great majority of fat triglycerides are digested by pancreatic lipase secreted by the exocrine pancreas into the duodenum. Lipases break down triglycerides into monoglycerides and free fatty acids, which are efficiently absorbed in the upper small intestine.

Protein digestion is initiated in the stomach by pepsin and hydrochloric acid, which denature and break large proteins down to smaller polypeptides. In the small intestine, proteases break down these polypeptides into free amino acids, and di- and tripeptides, which are directly absorbed by the intestinal mucosa.

Ingredients such as aspergillus oryza, ox bile extract and rennin can also aid in the digestion and absorption of food.

### INDICATIONS

Pan-Ox-5™ may be a useful nutritional adjunct for individuals who wish to supplement their diets with a wide variety of digestive enzymes.

### FORMULA (#7917)

#### Each Tablet Contains:

Betaine HCl.....	60 mg
Glutamic Acid.....	10 mg
Pancreatin (4X).....	75 mg
(equal to 300 mg of Pancreatin)	
Pepsin (1:3000).....	32.5 mg
Papain.....	48 mg
Aspergillus Oryza.....	35 mg
Lipase.....	50 mg
Ox Bile Extract.....	65 mg
Rennin.....	15 mg
Malt Diastase.....	7.5 mg
Beet Root Powder.....	100 mg
Citrus Pectin.....	12.5 mg

In a base of Myrrh Gum.

### SUGGESTED USE

Adults take 1 tablet daily with meals or as directed by physician.

### SIDE EFFECTS

No adverse side effects reported.

### STORAGE

Store in a cool, dry place, away from direct light. Keep out of reach of children.

### REFERENCES

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**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.**

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