

# Enzalase<sup>®</sup>

## PRODUCT INFORMATION

### 1) ENZYME CONTENT

Enzalase is a potent, multi-purpose enzyme supplement containing twelve plant-based enzymes. When taken with meals they provide digestive support, when taken between meals they provide systemic support. Enzalase is formulated to provide digestive support in all four food groups: fats, proteins, carbohydrates, and fiber.

### 2) HIGH LIPASE – FAT DIGESTION

The high lipase content in Enzalase improves the activity of all the digestive enzymes by removing fat coatings that surround food particles. Oily coatings slow down the digestion of proteins and carbohydrates and the solubilization of fiber.

### 3) PROTEOLYTIC ENZYMES - PROTEIN DIGESTION

Enzalase contains three powerful protein digesting enzymes that are all plant source proteases. Bromelain comes from pineapple, both fruit and stems, and forms peptides (short chains of amino acids) and amino acids from whole proteins. Papain is derived from unripe papaya fruit. It is a powerful digestive aid that attacks tough-to-digest proteins, releasing peptides and amino acids. Neutral protease functions optimally in a pH range around neutral (pH 7). Protein digestion is therefore enhanced by this enzyme in the small intestine which operates in the neutral pH range. These three enzymes support systemic health when taken on an empty stomach.\*

### 4) CARBOHYDRATE DIGESTION

With five enzymes, this is the largest group of enzymes in Enzalase. Lactase digests lactose (milk sugar) and releases galactose and glucose which are readily assimilated by the body. When lactose is not digested in the upper small intestine it travels to the ileum and colon where gas producing bacteria readily consume it. Alpha-Amylase is an important enzyme that digests various starch-based carbohydrates. Glucoamylase works with Alpha-Amylase by freeing glucose from starch and also preventing the build-up of dextrans.

### SUPPLEMENT FACTS:

Serving size: one capsule

Servings/bottle: 50

	Amount Per Serving	%DV
Plant-Source Digestive Enzymes	277 mg**	
<i>Bromelain Protease</i>	(200 GDU)	**
<i>Papain Protease</i>	(42,500 TU)	**
<b>LIPASE</b>	(6,000 FIP Lipase Units)	**
<i>Alpha-Amylase</i>	(5,000 SKB)	**
<i>Cellulase</i>	(3,000 CU)	**
<i>Alpha-Galactosidase</i>	(165 GALU)	**
<i>Hemicellulase</i>	(6,400 HCU)	**
<i>Neutral Protease</i>	(5,800 HUT)	**
<i>Lactase</i>	(1,000 ALU)	**
<i>Pectinase</i>	(25 Endo-PG U equivalent to 7,500 AJDU)	**
<i>Glucoamylase</i>	(5 AG)	**
<i>Invertase</i>	(400 SU)	**

\*\*Daily Value (DV) Not Established

Alpha-Galactosidase catalyzes the hydrolysis (digestion) of sugars in the raffinose family. These are the gassy carbohydrates found in beans, peas and cruciferous vegetables like broccoli and cabbage. Invertase, also called sucrose, is the enzyme that splits sucrose (table sugar) into its component parts, fructose and glucose. The body produces invertase in the small intestine for this purpose but aging and diet can often limit the amount produced.

### 5) FIBER SOLUBILIZATION AND PREBIOTIC ACTIVITY

Enzalase contains strong fiber solubilization activity from significant levels of three fiber-active enzymes: cellulase, hemicellulase, and pectinase. These enzymes exert cooperative action that solubilizes portions of various dietary fiber types rendering them more active as prebiotics. Bifidobacteria, for example, do not grow well on apple pectin unless it has been partially digested with pectinase.



### 6) PATENTED DEEP DELIVERY

Certain enzymes, some more than others, can become denatured with exposure to stomach acid and pepsin. Enzalase stands apart because the enzymes are protected by a food grade carbohydrate from seaweed called sodium alginate. This acid-proof protection assures that the enzymes are delivered unharmed and fully active into the small intestine. Sodium alginate adds a bonus benefit by holding the enzymes together in a gel as they move along, releasing prebiotics in the ileum section of the small intestine, resulting in prebiotic digestive support. This delivery method is protected by U.S. patent 9,011,843.

### 7) PATENTED SURFACTANT: ENZASTIM

All enzymes perform their catalytic activity in water where the surface tension can have a repelling effect. EnzaStim is a natural surfactant consisting of sunflower lecithin and oleic acid, that increases the activity of enzymes by lowering water's surface tension. EnzaStim also has a stimulating effect on probiotic bacteria by providing a food source that increases their growth and activity. Additionally, the activity of lipase is enhanced by EnzaStim which assists in fat emulsification. EnzaStim is protected by U.S. patents 8,722,035 and 8,066, 986.

### 8) FUNCTIONAL ACTIONS\*

High-potency enzymes like those found in Enzalase may help to\*:

- Reduce occasional diarrhea/constipation and promote digestive regularity
- Enhance proper elimination and nutrient absorption
- Decrease intestinal discomfort from occasional gas and bloating
- Support immune health and increase overall energy



GLUTEN FREE



DAIRY FREE



SOY FREE



GMO FREE



NUT FREE



VEGAN

### 9) DOSING AND ADMINISTRATION

- Digestive Dosing: one capsule per day prior to the largest meal of the day.
- Systemic Dosing: one capsule per day on an empty stomach.

### 10) ADVERSE REACTIONS

The digestive enzymes in Enzalase are food grade and generally recognized as safe (G.R.A.S.) by the United States FDA. High potency enzymes may cause mild to moderate discomfort for a short time as the digestive tract is cleansed. If discomfort persists, see your Healthcare Professional. Enzalase does not contain: Milk, Eggs, Soy, Gluten, Wheat, Casein, Nuts, Seafood or Beef Products. Healthcare Professional consultation is recommended for specific allergic sensitivities and possible drug interactions.

### 11) PACKAGING AND STORAGE

Enzalase is supplied in 450 mg, size "O" vegetable-capsules, 50 capsules per bottle. The capsules are a light tan color. Totally Inert Packaging (TIP) technology is utilized to provide maximum stability and shelf life: capsules are packaged in hermetically sealed amber glass bottles containing moisture and oxygen absorption packets. Keep bottles tightly closed and stored in a cool, dry place.

### 12) QUALITY ASSURANCE

Master Supplements posts lab test results on our website for every lot of Enzalase that is produced. We take this transparent step to show product purity, potency and enzymatic activity.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent disease.



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