

ECP Mannanase Neutral™

Enzyme/Probiotic Concentrate for Formulation Use

ECP Mannanase Neutral™ is a high-efficiency β-mannanase enzyme produced by non-pathogenic fungi. It is designed for the efficient hydrolysis of mannans and other polysaccharides, which are found in many plant materials. This ability to break down complex polysaccharides into simpler sugars leads to the widespread use of β-mannanase in many industries, including feed, pulp and paper, textile, and biofuel production. β-mannanase can also digest guar, making ECP Mannanase Neutral™ useful for both the oil-drilling process and the formulation of laundry detergents to remove sticky gums and other mannan-based stains.

Features & Benefits

- Hydrolyzes mannans and other polysaccharides
- Degrades β-mannan into MOS (mannan oligosaccharides)
- Helps remove tomato sauce, ice cream, chocolate, gum, and other stains that contain mannan
- Enhances the digestibility of animal feed ingredients for better nutrient absorption
- Facilitates the bleaching process and improves paper quality
- Enhances the breakdown of biomass leading to increased biofuel production

Specifications

Color & Appearance	Off white to yellow powder
pH	5.0-7.0
Enzyme Stability	12 months
Enzyme Activity	3,000 U/g (Mannase)
Shelf Life	2 years

Under standard assay conditions, ≥50% enzyme activity is maintained between pH 6.0 and 8.5, with thermal stability up to 60°C under short exposure conditions. Activity decreases significantly above 75–80°C.



Storage

Store in a cool, dry location. Keep containers tightly closed, before and after opening, to prevent moisture absorption and exposure to direct sunlight. Please follow the recommendations and use the product before the best before date. Contact Bionetix® with questions. Avoid inhalation, eye contact, and prolonged skin contact. Wash hands thoroughly after handling.

Packaging

Available in 25 kg (55 lbs) paper bags.

Typical Applications

- Grease traps in food service facilities
- Commercial kitchens
- Industrial grease management systems
- Drain lines connected to grease traps
- Ongoing grease trap maintenance programs

Directions for Use

For specific dosages, contact your Bionetix® representative.

Disclosure

Under standard assay conditions, ≥50% enzyme activity is maintained within a defined operational pH range and temperature window. Enzyme stability is dependent on exposure time, substrate, and formulation conditions. Activity decreases outside optimal ranges and under prolonged thermal exposure.

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