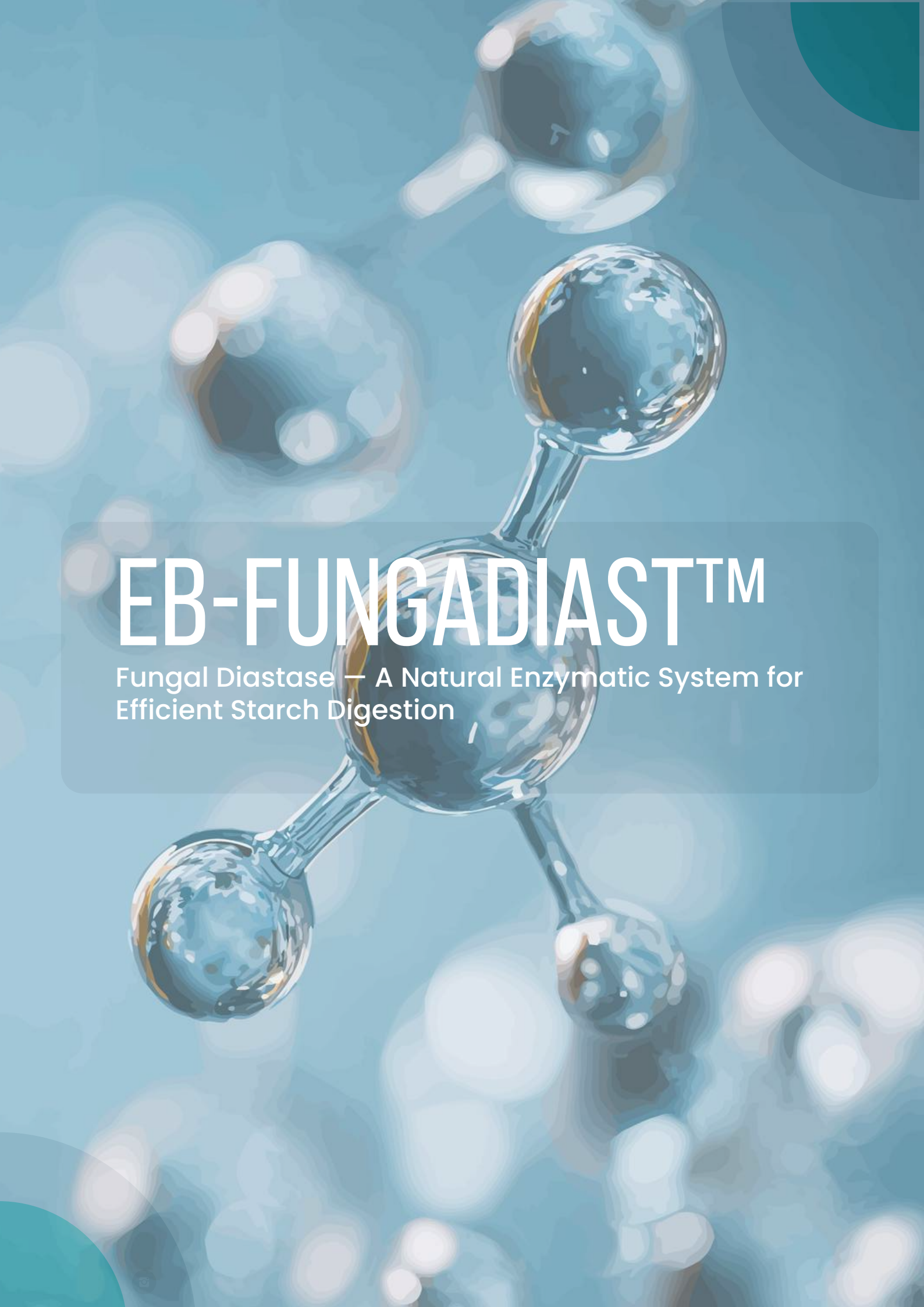




EB-FUNGADIAST™

Fungal Diastase — A Natural Enzymatic System for
Efficient Starch Digestion

ENZYMES: REDUCING BIOLOGICAL AND METABOLIC BURDEN

One of the most critical roles of enzymes is reducing the biological workload placed on living systems. By accelerating essential reactions, enzymes prevent the accumulation of intermediates and metabolic waste that can stress cells and tissues.

In digestive and systemic applications, enzymes assist in breaking down complex molecules into absorbable forms, minimizing energy expenditure and improving metabolic efficiency. This reduction in physiological burden supports better endurance, faster recovery, and improved overall function — particularly under conditions of stress or compromised health.

Enzymes, therefore, act as facilitators of efficiency, allowing biological systems to operate optimally with minimal strain.



FUNGAL DIASTASE: A NATURAL ENZYMATIC SYSTEM FOR EFFICIENT STARCH DIGESTION

About

Fungal Diastase is a complex enzymatic preparation obtained through controlled fermentation of selected fungal strains. It primarily contains amylolytic enzymes, including alpha amylase and related carbohydrases, which catalyze the breakdown of dietary starch into simpler, easily absorbable sugars.

Unlike pancreatic or animal-origin enzymes, Fungal Diastase functions effectively over a wider pH range, making it suitable for action throughout the gastrointestinal tract. Its natural origin, gentle activity, and proven digestive benefits make it a widely used enzyme in pharmaceutical and nutraceutical digestive formulations.

At Enzyme Bioscience, Fungal Diastase is offered under the brand EB-FungaDiast™, manufactured and controlled in compliance with Indian Pharmacopoeia (IP) standards to ensure consistent activity, safety, and regulatory reliability.

WHY FUNGAL DIASTASE

Fungal Diastase hydrolyzes complex starch molecules into dextrins, maltose, and simple sugars, supporting smooth carbohydrate digestion and efficient nutrient absorption. This action helps reduce digestive load and supports overall gastrointestinal function.

Efficient Starch Breakdown

Fungal Diastase hydrolyzes complex starch molecules into dextrins, maltose, and simple sugars, supporting smooth carbohydrate digestion and efficient nutrient absorption.

This action helps reduce digestive load and supports overall gastrointestinal function

Improves Digestive Comfort

Poor starch digestion often results in bloating, heaviness, and gas formation. Fungal Diastase helps minimize undigested carbohydrate residues, supporting improved digestive comfort and tolerance.

Broad pH Activity

Unlike enzymes that are active only in specific sections of the digestive tract, Fungal Diastase remains functional across a wider pH range. This allows it to continue working beyond the stomach and into the intestinal phase of digestion. This property enhances its effectiveness in complete carbohydrate digestion.

Non-animal origin

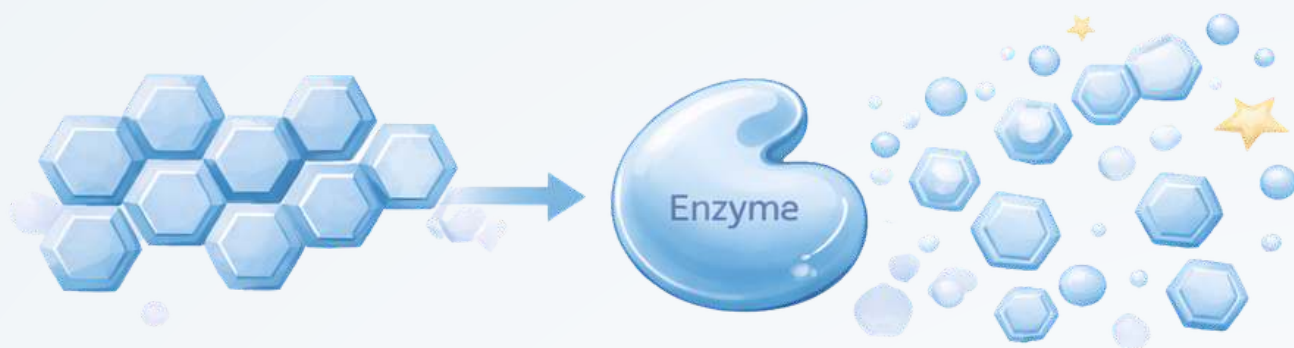
Produced via fungal fermentation, Fungal Diastase is:

- Non-animal origin
- Suitable for vegetarian formulations
- Widely accepted in clean-label products

MECHANISM OF ACTION

Fungal Diastase acts primarily through amylolytic enzymes that cleave α -1,4-glycosidic linkages in starch molecules. This enzymatic hydrolysis results in the formation of simpler carbohydrates that can be readily absorbed and utilized by the body.

- ↗ Progressive starch hydrolysis
- Sustained enzymatic activity over varying pH conditions
- ↘ Gentle yet effective carbohydrate digestion



These features make Fungal Diastase suitable for long-term digestive support.

Established Pharmacopoeial Acceptance

Fungal Diastase IP is well recognized for pharmaceutical use. Compliance with IP ensures:

-  Standardized activity measurement
-  Consistent enzymatic potency
-  Reliable quality for regulated markets

APPLICATIONS & BENEFITS

Pharmaceutical

- Digestive aid formulations
- Carbohydrate digestion support products

Nutraceutical

- Digestive enzyme supplements
- Appetite and digestive comfort support

Clinical

- Support in carbohydrate malabsorption
- Digestive support for elderly and pediatric populations

TECHNICAL SPECIFICATIONS

PRODUCT NAME : Fungal Diastase (1:2000) IP, (1:1200) IP, (1:800) IP

Exp. Date : 3 Years from manufacturing

TEST	LIMITS
Identification	Cream to Light Brown Color Powder With Characteristics Odor
Solubility	Soluble in Water
Loss on Drying	NMT 5 %

Microbial Limit	
E.coli	Should be Absent/g
Salmonella	Should be Absent/10g
Assay	NLT 1:2000 U/g, 1:1200, 1:800

QUALITY, SAFETY & COMPLIANCE

EB-FungaDiast™ is manufactured under stringent GMP-controlled conditions with comprehensive quality monitoring. Each batch is tested for enzymatic activity, microbial limits, and safety parameters in accordance with IP standards.

HANDLING, STORAGE & PACKAGING

STORE IN COOL PLACE

KEEP AWAY FROM HEAT & LIGHT

PROTECT FROM MOISTURE

STANDARD PACKAGING OF 25 KG DRUM

Store in a cool, dry place away from heat, light, and moisture. Protect from excessive humidity to maintain enzyme stability.

Standard Packaging: 25 kg drum

Custom packaging options available upon request.

WHY CHOOSE ENZYME BIOSCIENCE

Enzyme Bioscience combines robust R&D expertise, strong quality systems, and pharmacopoeial knowledge to deliver dependable enzyme solutions. EB-FungaDiast™ reflects our commitment to consistency, compliance, and application-focused innovation.



REGULATORY DISCLAIMER

EB-FungaDiast™ is intended for B2B use only. Final application suitability, formulation claims, and regulatory compliance remain the responsibility of the customer as per applicable local regulations.