



# ENZYMOL PROTECT A

***Enzyme-based molasses preservation solution for maintaining fermentable sugar stability during storage***

Enzymol Protect A converts non-reducing/modified sugars (formed due to Maillard reactions) inhibiting storage-related deterioration, converting them into reducing form, maintain fermentable sugar stability. Together Enzymol A & B improve molasses shelf life during long-term storage.

## **Mode of Action**

Enzymol Protect A is a unique formulation containing enzymes and supporting ingredients designed for molasses preservation:

- Controls deterioration of fermentable sugars during storage.
- Helps reduce losses caused by Maillard reactions retention of fermentable sugars. Partially hydrolyses non-reducing sugars into fermentable sugars
- Supports retention of fermentable sugars and reduces yield loss, Helps improve molasses storage stability and shelf life with Enzymol B.

## **Product Key Benefits**

- Reduces storage-related sugar losses.
- Enhance FAAN by solubilizing proteins / glycoprotein with protease
- Improve viscosity and flowability by enhanced polymerized sugars breakdown
- Helps maintain molasses quality shelf life and feedstock stability during storage
- Supports better downstream fermentation efficiency

## Product Application

Enzymol Protect A is recommended for use in molasses storage tanks during prolonged storage periods.

- Applied in storage tanks after initial Enzymol Protect B treatment cycle
- Used as part of a scheduled molasses preservation program

## Operational Conditions

- Temperature: 30 – 60°C
- pH: 4.5 – 5.5

## Dosage

- 15–20 ppm on volume/30 days

## Product Characteristics

Parameter	Specification
Composition	Blend of essential enzymes, proteases
Form	Liquid
Appearance	Off white to brownish

## Product Packaging

- 25 kg HDPE drums

## Product Shelf Life

- Stable for 12 months under shaded room-temperature storage conditions away from direct sunlight

## Product Handling

- Avoid inhalation of aerosols or enzyme vapours
- Avoid prolonged contact with skin, eyes, and mucous membranes
- Prevent splashing and aerosol formation during handling
- Flush spills with water immediately
- Use suitable PPE including gloves and eye/face protection
- Wash contaminated clothing before reuse
- Follow MSDS guidelines for safe handling



ISO 9001:2015 Certified | FSC 22000 Certified

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Certifications:

