



ENZYSWEET

Enzyme-based microbial inhibitor for improved sugarcane juice processing and purity management

In sugarcane processing, microbial contamination and inversion losses can reduce juice purity, impact recovery, and lower overall process efficiency. Conventional biocides may control bacteria but can introduce toxicity and environmental concerns.

Enzysweet is an enzyme-based microbial inhibitor designed to control microbial contamination and inversion simultaneously, improving process efficiency and reducing sugar losses during sugarcane juice processing.

Mode of Action

Enzysweet is a liquid protease enzyme formulation developed for sugarcane juice processing:

- Controls microbial contamination during juice processing
- Helps control both inversion and bacterial contamination simultaneously
- Reduces purity drops associated with microbial activity
- Supports improved process efficiency and sugar recovery compared to conventional biocides

Product Key Benefits

- Controls microbial contamination effectively
- Helps reduce inversion losses
- Improves juice purity and process efficiency
- Reduces sugar losses during processing
- Environment-friendly alternative compared to conventional biocides
- Supports improved clarification and downstream operations

Product Application

Applicable in sugarcane juice processing systems:

- Used as contamination controller and process yield enhancer
- Applied at specific points in split dosing manner for efficient outcomes
- Recommended from primary to mixed juice stages depending on contamination levels

Operational Conditions

- Temperature: 30 – 70°C
- pH: 5.5 – 7.0

Dosage

- 3–5 ppm (3–5 Kg per MT of cane crushed) depending on bacterial contamination and purity drop

Product Characteristics

Product Type: Liquid protease enzyme

Form: Liquid

Appearance: Off white

Product Packaging

- 25 kg HDPE drums

Product Shelf Life

- Minimum 12 months below 30°C

Product Handling

Enzymes are proteins and require controlled handling:

- Avoid inhalation of dust or aerosols
- Use PPE including gloves, protective clothing, and eye/face protection
- Prevent splashing and aerosol formation
- Flush spills with water to avoid dust formation
- Wash contaminated clothing before reuse
- Follow MSDS guidelines for safe handling



ISO 9001:2015 Certified | FSSC 22000 Certified

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