



# ECODEX

## *Dextran Controller for Sugarcane Juice Processing*

Sugarcane juice often faces challenges due to dextran formation, leading to high viscosity, poor crystallization, and sucrose losses, the reason behind this **microbial activity, especially by *Leuconostoc* bacteria, which convert sucrose into dextran when cane is damaged, delayed in processing, or stored improperly.** ECODEX addresses these industry issues by effectively controlling dextran and improving process

ECODEX is a fungal Dextranase enzyme (1,6- $\alpha$ -D-glucan-6-glucanohydrolase) obtained through controlled fermentation of *Penicillium paecilomyces*. Hydrolyses dextran into glucose, isomaltose, and iso-maltotriose. Reduces viscosity, enabling smooth juice flow. Improves crystallization and evaporation efficiency. Enhances ICUMSA values with prolonged use.

### **Mode of Action**

Ecodex hydrolysed the interior  $\alpha$ -1,6-glucosidic bonds of dextran, ensuring smoother processing and higher sugar recovery.

### **Product Key Benefits**

- Improved crystallization and evaporation.
- Reduced viscosity for smoother operations.
- Enhanced sugar quality and ICUMSA improvement.
- Lower sucrose losses, maximizing yield.
- Consistent process smoothness and efficiency.

## Product Application

Application in milling, clarification systems, and refineries.

## Operational Conditions

- Temperature: **35-70°C**
- pH: **5.0-7.5**

## Dosage

**4 - 6 ppm/ton of cane crushed (depending on dextran levels)**

## Product Characteristics

Declared Enzyme: Dextranase (1,6- $\alpha$ -D-glucan-6-glucanohydrolase)

- Form: Liquid
- Appearance: Amber to Brown

## Product Packaging

- Available in **25 kg and 50 kg HDPE containers.**

## Product Shelf Life

- Minimum **12 months** when stored below **25°C.**

## Product Handling

- The product is a **non-hazardous chemical** under normal handling conditions.
- Avoid direct contact with eyes and skin; use appropriate protective equipment if necessary.
- Store in a cool and dry place below **25°C.**
- Refer to the **MSDS** provided with the product for detailed safety and handling instructions.



ISO 9001:2015 Certified | FSC 22000 Certified

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Certifications:

