



Catalysts

*making things happen...*

# Enzylase™

Efficiency Booster for Sugar Processing

Enzylase is a high temperature starch hydrolyzing alpha amylase which is obtained by the controlled fermentation of genetically modified strain of *Bacillus Licheniformis*. It has been designed and developed by our R&D team for hydrolysis of the interior alpha-1-4-glycosidic bond of starch and its degradation products.

## PRIMARY BENEFICIARY FUNCTIONS

Enzylase is a unique researched enzyme based innovation which overall improves the process parameters of sugar manufacturing process. The rational uses of enzyme systems provide the following effects:

- Hydrolyses starch & converts the same to dextrin and glucose
- Prolonged use leads to system improvement across manufacturing
- Improves clarification
- Reduces overall viscosity & ensures improved pan boiling
- Improves ICUMSA color

## PRODUCT APPLICATION

Enzylase is dosed at various points in the process depending upon the specific need which varies from area to area, climatic conditions and cane varietal balance to get extraordinary results. To establish the right doses our customer support team conducts plant trial for a specific period before continuing it for regular usage.



Sugar Cane

Cane Preparation

Milling/Juice Extraction

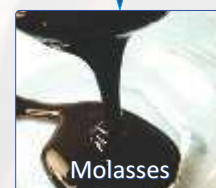
Clarification  
(Sulphitation/Defecation)

Clarifier

Clear Juice Evaporation

Vacuum Pan Boiling/  
Crystallization

Centrifuging



Molasses



Sugar



### PRODUCT CHARACTERISTICS

Occurrence	Liquid
Appearance	Brown



### OPERATING PARAMETERS

Temperature	35-105°C
pH	5.0-7.5



### DOSING

3-5 ppm i.e. 3-5 gms/ton of cane crushed depending upon starch levels  
25-30 ppm on raw sugar



### PACKAGING

Available in 30 Kg HDPE drums



### PRODUCT SHELF LIFE

Below 30°C Minimum shelf life of 6 months

### PRODUCT HANDLING

- Enzymes are proteins. Inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact. The product may create easily inhaled aerosols if splashed or vigorously stirred.
- Spilled product may dry out and create dust. Spilled material should be flushed away with water. Avoid splashing. Left over material may dry out and create dust.
- Wear suitable protective clothing, gloves and eye/face protection
- Contaminated cloths should be properly washed
- MSDS is supplied with the product. Follow MSDS safety instructions for more details.

### CATALYSTS BIO-TECHNOLOGIES PVT. LTD.

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