

ENZYSACC PLUS

Enzyme cocktail for enhanced saccharification and improved fermentation attenuation

In ethanol fermentation, incomplete conversion of non-reducing and complex sugars into fermentable sugars can limit attenuation, reduce yield, and impact overall process efficiency.

ENZYSACC PLUS is a specialized enzyme cocktail designed to convert dextrins and complex sugar polymers into fermentable sugars, improving substrate utilization and enhancing fermentation performance.

Mode of Action

- ENZYSACC PLUS is a synergistic enzyme blend consisting of amylo-glucosidase and pullulanase:
- Hydrolyses non-reducing sugars such as dextrins and oligosaccharides
- Converts complex carbohydrates into reducing sugars (glucose)
- Enhances saccharification efficiency by increasing availability of fermentable sugars
- Improves fermentation attenuation and sugar conversion efficiency

Product Key Benefits

- Increases fermentation attenuation rate
- Enhances product recovery through improved enzyme efficiency
- Converts complex sugars into fermentable sugars
- High activity allows lower dosage usage
- Maintains stable activity during storage
- Reduces ordering, handling, and logistics costs

Product Application

Applicable in ethanol production processes:

- Used for saccharification
- Converts non-reducing sugars into reducing sugars
- Supports improved fermentation performance

Operational Conditions

- Temperature: 30 – 55°C
- pH: 3.5 – 5.5

Dosage

- 0.6 – 0.8 kg per ton of starch
- 1-2 gm/Hl in cold wort

Product Characteristics

- Composition: Amylo-glucosidase & Pullulanase
- Form: Liquid
- Appearance: Light to dark brown
- Specific Gravity: 1.12 – 1.15
- pH: 4.0 – 4.5

Product Packaging

- 25 kg HDPE drums
- 1100 kg IBC (IPC TOT)

Product Shelf Life

- Minimum 6 months below 20°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
- Wash contaminated clothing before reuse
- Follow MSDS guidelines for safe handling



ISO 9001:2015 Certified | FSSC 22000 Certified

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