



# ALCOZYME G PRO

***Advanced enzyme blend for improving alcohol yield and process efficiency in grain-based fermentation.***

Grain-based fermentation systems frequently encounter issues such as the accumulation of intermediate volatile acids, incomplete starch hydrolysis, and microbial contamination, which collectively contribute to diminished alcohol yield and reduced process efficiency.

Alcozyme G Pro is a tailor made formulation that enhances fermentation performance by increasing fermentable sugar conversion, mitigating microbial contamination, and improving yeast nutritional availability, thereby maximizing process efficiency and alcohol yield.

## **Mode of Action**

- Hydrolyzes starch and oligosaccharides to glucose, increasing fermentable sugars.
- Reduces contamination via bacterial cell wall lysis, preserving sugars for yeast.
- **Protease activity releases FAAN, enhancing yeast nutrition and fermentation kinetics.**

## **Product Key Benefits**

- Improves alcohol yield and fermentation efficiency
- Controls volatile fatty acid (VFA) formation
- Reduces residual starch in the process
- Enhances yeast health and viability
- Eliminates diacetyl odour in alcohol
- Maintains quality of rectified spirit

## Product Application

Applicable in grain-based fermentation systems including PPSF and SSF.

## Operational Conditions

- Effective pH Range: **3.5 – 5.5**
- Effective Temperature Range: **30 – 55°C**

## Dosage

5 ppm

## Product Characteristics

- Composition: Blend of essential enzymes
- Form: Powder
- Appearance: Off-white to brownish
- Shelf Life: Minimum 24 months (below 25°C)

## Product Packaging

- 1 kg aluminium foil packs in 20 kg HDPE drums

## Product Handling

Avoid inhalation of enzyme dust or aerosols. Use PPE including gloves and eye protection. Prevent splashing and dust formation. Spilled material should be washed away with water. Follow MSDS guidelines for safe handling.



ISO 9001:2015 Certified | FSC 22000 Certified

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Certifications:

