

LG PRIME

Glucoamylase enzyme for use in saccharification and fermentation

Description

LG Prime is a purified native that functions by the hydrolysis of terminal 1,4 linked alpha-D-glucose residues from non-reducing ends of polysaccharide chains with release of beta-D-glucose. Its application is to yield monomeric glucose molecules that can be fermented by yeast into biofuels of interest such as ethanol.

Product Characteristics/Properties

Activity: 340,000 – 360,000 GAF-C

Appearance: Light to Dark Brown liquid

pH: 4.0-9.0

Bulk Density: 1.10 – 1.16 g/mL

Properties: Product may be hazy and contain slight precipitate; this does not affect enzyme activity or performance.

Application Recommendations

LG Prime is used to saccharify liquefied mashes of whole ground corn. The resultant glucose is fermented by yeast to produce ethanol.

LG Prime has a broad operating range for enhanced corn batch fermentations.

In high gravity fermentations, performance can be further enhanced by the addition of SZM XT-20+ fungal alpha amylase, SZM XC150 acid cellulase, and/or SZM AP-1+ acid protease.

Dosage Recommendation

LG Prime should be dosed at 0.030 – 0.032% weight enzyme / weight as is corn. The actual dose required will depend upon the conditions of your fermentation: time, initial pH, and the level of solids.

Regulatory Status

- ISO 9001 registered company
- Kosher certified
- GRAS (Generally Recognized as Safe)

GM Status

This product is not a GMO.

The enzyme product is manufactured by fermentation of microorganisms that are not present in the final product. The production organisms and the enzyme

effectiveness are improved by means of modern biotechnology.

Packaging

LG Prime is available in 1,100 KG totes or bulk tankers.

Storage

LG Prime will meet the declared activity upon arrival at your plant.

Recommended storage: 0-25°C (32°-77°F)

Packing must be kept intact, dry, and away from sunlight. Please follow the recommendations and use the product before the best before date to avoid the need for a higher dosage.

Best before: You will find the best before date in the COA or on the product label.

The product gives optimal performance when stored as recommended and used prior to the best-before date.

Safety and Enzyme 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. See the SDS for further information regarding safe handling of the product and spills.

Technical Service

CTE Global, Inc. is committed to formulating a productive and mutually beneficial relationship with ethanol producers in order to make their fermentation process as consistent, efficient, and as most cost-effective as possible. More detailed information about the application of this product is available upon request. If you have any questions, please contact us and let us know how we can be of assistance.

For more information contact:

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