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AHA-LP200T

LOW PH THERMO-STABLE ALPHA-AMYLASE

DESCRIPTION

Angel Thermo-Stable Alpha-Amylase AHA-LP200 T is a enhanced food-grade starch hydrolyzing α -amylase derived from *Bacillus licheniformis*. It is an incision enzyme with the characteristics of high temperature, low pH stability and fast viscosity reduction.

CHARACTERISTICS

Name	Thermo-Stable α -Amylase AHA-LP200T
System name	EC.3.2.1.1, 1,4- α -D-Glucan-glucohydrolase
Activity	200,000U/mL (minimum)
Appearance	brown liquid
pH	4.5 to 6.5
Specific gravity	1.15 to 1.20 g/ml

EFFECT OF pH

The enzyme is stable in the range of pH 4.5 to 6.5, the optimum pH is in the range of 4.8.0 to 6.5, and it maintains considerable even at pH 4.8.

EFFECT OF TEMPERATURE

The optimum temperature for this product is 80-100°C. The enzyme maintains considerable activity at higher temperatures (108°C or above).

APPLICATION

This product can be widely applied in production of alcohol from different raw materials such as corn, rice, cassava and soon. The application effective is concerned with raw material type, ratio of material to water, pH, injection/cooking temperature, sustain time and so on. The details of recommended process as below:

Rice raw material	Workable Range	Optimum Range
Ratio of material to water	1:1.8-1:3	1:2-1:3
pH	4.5-6.5	4.8-6.0
Precooking (recommended)		60°C 30 min
Injection/cooking temperature	80-100°C	85-95 °C
Cooking time	90-120 min	
Dosage (kg/ Starch)	0.10-0.30	0.15-0.30

SPECIFICATIONS

Sealed in Plastic Bucket;
Net Weight: 28kg/bucket.

STORAGE

The product if stored at 25°C below, 12 month shelf life, if under the 4~10°C cold storage, shelf life is 18 months;

PRECAUTIONS

The product is bio-active substances, inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Unnecessary contact with the product and inhalation of dust should be avoided.
2. In case of contact with the eyes or skin, promptly rinse with the affected area with plenty of water for at least 15 minutes.