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AMYLOGLUCOSIDASE/GLUCOAMYLASE (*Aspergillus niger*)

SPECIFICATION SHEET

I.U.B. 3.2.1.3

DESCRIPTION

Is a highly active fungal amylase preparation derived from a selected Non-GMO strain of *Aspergillus niger*. The enzyme can hydrolyze the alpha-D-1,6 branch points and alpha-D-1,4 glycosidic linkages.

PHYSICAL PROPERTIES

A tan to light tan free-flowing powder, soluble in water, with characteristic odor and taste.

ENZYMATIC PROPERTIES

The pH stability range is 3.5 to 6.0 with an optimal pH range of 4.0 to 4.4. The optimum temperature range is 58°C to 65°C with a stability range from 40°C to 65°C. The enzyme can be inactivated by raising the temperature to 85°C and holding for 15 minutes.

ACTIVITY

One unit of amyloglucosidase activity (AG) is defined as the amount of amyloglucosidase that will liberate 0.1 micromol/min of p-nitrophenol from the PNPG Solution under the conditions of the assay. The acceptance criteria for all enzyme assays is: NLT 85.0% and NMT 115.0% of the declared units of enzyme activity.*

COUNTRY OF ORIGIN Mexico

STORAGE/SHELF LIFE/STANDARD PACK SIZE

Product is stable for two years (24 months) if stored at or below 10°C in sealed poly bags in boxes or drums away from sunlight and high humidity. Product is packed in 25 kilo fiber drums or double-wall boxes.

HANDLING PRECAUTIONS

Avoid the formation of aerosol and dust of the product. Repeated inhalation of enzyme aerosol or dust may cause allergic type reactions in sensitized individuals. For detailed information please refer to the SDS.

Description	Specification	Method
Activity:	NLT 1,000 AGU/GM	FCC
Identity:	Glucoamylase	FTIR
Moisture:	NMT 10%	Ohaus MB-45
Metals: Lead	NMT 0.5 ppm	AOAC 2013.06
Microbiological Data:		
TPC	<10,000 CFU/g	Soleris / AOAC 990.12
E.coli	Negative/10g	Soleris / AOAC 991.14
Entero	<100 CFU/g	Soleris / AOAC 2003.01
Salmonella**	Negative**	BAM Ch. 5 /AOAC 2011.03
Yeast	<1,000 CFU/g	Soleris / AOAC 997.02
Mold	<1,000 CFU/g	Soleris / AOAC 997.02
Coliforms	<100 CFU/g	Soleris / AOAC 991.14

*FCC 9 Page 414

**If Entero test results exceed 100 CFU/g then Salmonella testing (Negative/25g) is completed.