



## PUNATURE FOOD INGREDIENTS CO., LTD

Room 202, No. 15, Lane 978 Jindu Road, 201108 Shanghai, China

### PRODUCT SPECIFICATION

**Product Name:** Alpha-Galactosidase

**Strain:** *Aspergillus niger*

**Temperature range:** 35°C - 65°C

**Optimum Temperature:** 55°C

**PH range:** Effective pH 3.0~9.0

**Optimum pH:** 5.5

**The effect of metal ions on enzyme activity:** certain concentrations of  $\text{Cu}^{2+}$ ,  $\text{Zn}^{2+}$ ,  $\text{Mn}^{2+}$ ,  $\text{Fe}^{2+}$ ,  $\text{Mg}^{2+}$  have activating effects, EDTA,  $\text{Ba}^{2+}$  and  $\text{Ag}^{+}$  has inhibiting effects.

**Standards:** FCC VII

ITEM	STANDARD	METHOD
Appearance	Rice white to light brown powder	Visual
Odor & Taste	Characteristic odour and taste	Taste
Moisture	$\leq 7\%$	Moisture analyzer
Identifiable activity	Positive for Lactase Activity	In-house
Activity	$\geq 50,000\text{GALU/g}$	FCC VII
Total plate count	$\leq 1000\text{CFU/g}$	FDA BAM Online Ch. 3
Coliform Group	$\leq 30\text{CFU/g}$	FDA BAM Online Ch. 4
Mold & Yeast count	$\leq 100\text{CFU/g}$	FDA BAM Online Ch. 2
E. Coli	Negative in 25g	FDA BAM Online Ch. 4
Salmonella	Negative in 25g	FDA BAM Online Ch. 5
Staphylococcus aureus	Negative	FDA BAM Online Ch. 12
Pseudomonas aeruginosa	Negative	AOAC
Lead	$\leq 3\text{ ppm}$	USP <231>
Mercury	$\leq 0.1\text{ ppm}$	USP <231>
Cadmium	$\leq 1\text{ ppm}$	USP <231>
Arsenic	$\leq 1\text{ ppm}$	USP <231>

**Packaging:** 20KG/paper drum

**Shelf Life & Storage condition:** 24 months from the date of production when stored under 10°C.

Avoid to be exposed to the air, once opened, should be used immediately or resealed.