

Active Recombinant *Bacillus stearothermophilus* α -Glucosidase

Cat. No. α -Glucosidase-08B **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Bacillus stearothermophilus
Description	α -glucosidase is a brush border enzyme which hydrolyzes starches and disaccharides to glucose for absorption from the intestine.
Form	Suspension
Molecular Weight	66000
Specificity	Hydrolysis of terminal, non-reducing α -1,4-linked D-glucose residues with release of D-glucose.
CAS Number	9001-42-7
CAZy Family	GH13
Bio-Activity	Specific Activity: ~ 20 U/mg (40 centigrade, pH 6.5 on p-nitrophenyl- α -D-glucopyranoside).
Unit Definition	One Unit of α -D-glucosidase activity is defined as the amount of enzyme required to release one μ mole of p-nitrophenol per minute from 4-nitrophenyl α -D-glucopyranoside (5 mM), in sodium phosphate buffer (100 mM), pH 6.5 at 40

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	centigrade.
Applications	High purity recombinant α -Glucosidase (<i>Bacillus stearothermophilus</i>) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Stability	> 1 year under recommended storage conditions
Storage	2-8 centigrade
Storage Buffer	In 3.2 M ammonium sulphate
Concentration	~ 1500
GENE INFORMATION	
Synonyms	EC: 3.2.1.20; alpha-glucosidase; alpha-D-glucoside glucohydrolase; α -Glucosidase

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