



Diagnostic Enzymes

Alpha-Glucosidase from *Bacillus stearothermophilus* (Recombinant)

Product Information

Cat#	DIA-502
Source	<i>Bacillus stearothermophilus</i>
Description	High purity recombinant α -glucosidase (<i>Bacillus stearothermophilus</i>) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Form	Suspension
ECNumber	3.2.1.20
Activity	\sim 35 U/mg (40 °C, pH 6.5 on p-nitrophenyl- α -D-glucopyranoside)
CAS No.	9001-42-7
Optimum temperature	60 °C
Stability	> 1 year under recommended storage conditions
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 °C.
Storage	2–8 °C
Synonyms	α -glucosidase; α -D-glucoside glucohydrolase
Buffer	3.2 M ammonium sulphate
Applications	Applications in carbohydrate and biofuels research and analysis and analytical procedures.
Molecular Weight	66000 Da
Concentration	\sim 1500 U/mL
Specificity	Hydrolysis of terminal, non-reducing α -1,4-linked D-glucose residues with release of D-glucose.

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