Creative Enzymes
Diagnostic Enzymes

High Purity Recombinant Alpha-Glucosidase from Bacillus stearothermophilus

Product Information

Cat#	DIA-502
Source	Bacillus stearothermophilus
Description	High purity recombinant α-glucosidase from Bacillus stearothermophilus for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Form	Suspension
CAS No.	9001-42-7
Activity	~ 35 U/mg (40 °C, 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 µmole 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
Enzyme Commission Number	EC 3.2.1.20
Stability	> 1 year under recommended storage conditions
Optimum temperature	60 °C
Buffer	3.2 M ammonium sulphate
Applications	Applications in carbohydrate and biofuels research and analysis and analytical procedures.
Molecular Weight	66000 Da
Concentration	~ 1500 U/mL
Specificity	Hydrolysis of terminal, non-reducing α-1,4-linked D-glucose residues with release of D-

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