

Thermostable Alpha-Amylase from *Bacillus* sp.

Product Information

Cat#	DIA-494
Source	<i>Bacillus</i> sp.
Description	Thermostable α -amylase from <i>Bacillus</i> sp. for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Form	Solution
CAS No.	9000-90-2, 9000-85-5
Activity	~ 145 U/mg (40 °C, pH 6.5 on Ceralpha reagent)
Unit Definition	One unit of α -amylase activity is defined as the amount of enzyme required to release one μ mole of p-nitrophenol from blocked p-nitrophenyl-maltoheptaoside per minute (in the presence of excess α -glucosidase) at pH 6.5 and 40 °C.
Storage	4 °C
Synonyms	α -amylase; 4- α -D-glucan glucohydrolase
Enzyme Commission Number	EC 3.2.1.1
Stability	> 1 year under recommended storage conditions
Optimum temperature	100 °C
Buffer	50% (v/v) glycerol plus 0.02% sodium azide
Applications	For use in carbohydrate research.
Molecular Weight	58000 Da
Concentration	~ 3,000 U/mL
Specificity	Hydrolysis of α -1,4 glucosidic linkages in linear α -1,4 glucan (e.g. amylose regions in starch).