

Alpha-Amylase (Thermostable)

Product Information

Cat#	DIA-494
Source	Bacillus sp.
Description	High purity α -amylase (Thermostable) (Bacillus sp.) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Form	Solution
ECNumber	3.2.1.1
Activity	~ 145 U/mg (40 °C, pH 6.5 on Ceralpha reagent)
CAS No.	9000-90-2, 9000-85-5
Optimum temperature	100 °C
Stability	> 1 year under recommended storage conditions
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 glucanohydrolase
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).