



α -AMYLASE (*Aspergillus oryzae*) (Lot 160501b)

E-ANAAM

(EC 3.2.1.1) 4-alpha-D-glucan glucanohydrolase

CAZy Family: GH13

03/19

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on isoelectric focusing (pI ~ 3.5)
- Single band on SDS-gel electrophoresis (MW = 54,000)

2. SPECIFIC ACTIVITY AND LEVEL OF OTHER ACTIVITIES:

One Unit of activity is defined as the amount of enzyme required, in the presence of excess thermostable α -glucosidase, to release one μ mole of *p*-nitrophenol from BPNPG7 in one minute under the defined assay conditions, and is termed a Ceralpha Unit.

Substrate	Specific Activity (U/mg Protein)
Ceralpha Reagent (pH 5.4, 40°C)	120

3. PHYSICOCHEMICAL PROPERTIES:

pH Optima:	5.0
pH Stability:	4.5-8.0
Temperature Optima:	50°C
Temperature Stability:	< 50°C

4. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension in 0.02% sodium azide and should be stored at 4°C.

The concentration of enzyme as supplied is 1000 CU/mL, the correct concentration for use in the **Megazyme Starch Damage Method**.