



β-AMYLASE FROM BARLEY (Lot I30701a)

E-BARBL50

08/13

(EC 3.2.1.2) 4-alpha-D-glucan maltohydrolase
CAZy: GH Family 14

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Crystalline Single band on SDS-gel electrophoresis (MW = 58,300)
- Two major bands on isoelectric focusing (pI's 5.4 & 5.7); minor band at pI 5.0

2. SPECIFIC ACTIVITY:

| Substrate | Activity (U/mg) |
|--------------------------------|--------------------|
| Starch (10 mg/mL, pH 6.0 40°C) | 588 |
| Betamyl-3 Reagent | 15 |

3. CONTAMINANTS:

α-Amylase < 1 part per 2 million of β-amylase

4. PHYSICOCHEMICAL PROPERTIES:

pH Optima: 6.0
 pH Stability: 4.5 - 8.0
 Temperature Optima: 60°C
 Temperature Stability: up to 60°C

5. STORAGE CONDITIONS:

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

NOTE:

This enzyme is also supplied in powder form at 20,000 International Units (starch substrate, as above) per gram. The bulking agent is BSA and ammonium sulphate. This activity is approximately equal to 2,000° Lintner.