



β -AMYLASE FROM BARLEY (Powder, Lot 20801a)

E-BARBP

07/2011

PROPERTIES

1. ELECTROPHORETIC PURITY

- 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
- Prepared from a crystalline enzyme.

2. SPECIFIC ACTIVITY:

SUBSTRATE	ACTIVITY (U/mg)
Starch (10 mg/ml, pH 6.0, 40°C)	1400
p-NP-Maltopentaoside	1600

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	<60°C

5. STORAGE CONDITIONS

The enzyme is supplied as a powder freeze-dried in the presence of BSA, and should be stored at -20°C.

The enzyme, as supplied (in the presence of BSA) has an activity of 50,000 International Units (starch substrate, as above) per gram. This activity is approximately equal to 2,000° Lintner.