



β -AMYLASE FROM BARLEY (Lot 50302)

11/99

PROPERTIES

1. ELECTROPHORETIC PURITY

- Crystalline.
- Single band on SDS-gel electrophoresis (MW~150,000)

2. SPECIFIC ACTIVITY:

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

3. CONTAMINANTS

α -Amylase < 1 part per 3 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 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 60,000 International Units (starch substrate, as above) per gram. The bulking agent is BSA. This activity is approximately equal to 6,000° Lintner (this is 3 times more concentrated than the enzyme routinely used in AACC and ASBC α -amylase assay procedures).