

β -AMYLASE (Barley)

12/23

Non-recombinant

E-BARBL-50KU

EC: 3.2.1.2

Synonyms: beta-amylase; 4-alpha-D-glucan maltohydrolase

CAZy Family: GH14

CAS: 9000-91-3

Refer to the product lot number Certificate of Analysis for lot specific properties.

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 58,300)
- Single major bands on isoelectric focusing (pI ~ 5.4 & 5.7)
- One minor band on isoelectric focusing (pI ~ 5.0)

2. SPECIFICITY:

Hydrolysis of α -1,4-D-glucosidic linkages in polysaccharides releasing maltose units from the non-reducing end.

3. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 6.0-7.0 and up to 60°C

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

4. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension containing 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in sodium phosphate buffer (200 mM), pH 6.0. **Swirl to mix the enzyme immediately prior to use.** This enzyme is also supplied in powder form (**E-BARBP**) at 20,000 International Units (starch substrate, as above) per gram.