

## $\beta$ -GLUCOSIDASE (*Aspergillus niger*)

08/23

**Non-recombinant**

**E-BGLUC**

EC: 3.2.1.21

**Synonyms:** beta-glucosidase; beta-D-glucoside glucohydrolase

**CAZy Family:** GH3

**CAS:** 9001-22-3

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

### PROPERTIES

**1. ELECTROPHORETIC PURITY:**

- Single band on SDS-gel electrophoresis (MW ~ 121,000)
- One major band on isoelectric focusing (pI ~ 4.0)

**2. SPECIFICITY:**

Hydrolysis of terminal, non-reducing  $\beta$ -D-glucosyl residues with release of  $\beta$ -D-glucose.

**3. PHYSICOCHEMICAL PROPERTIES:**

Recommended conditions of use are at pH 4.0-5.0 and up to 60°C

pH Optima: 4.0

pH Stability: 3.0-9.0 (> 75% control activity after 24 h at 4°C)

Temperature Optima: 70°C (10 min reaction)

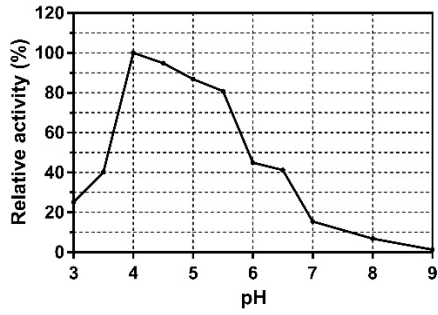
Temperature Stability: up to 60°C (> 75% control activity after 15 min incubation at temperature)

**4. STORAGE CONDITIONS:**

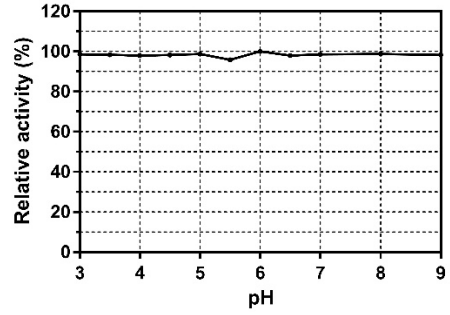
The enzyme is supplied as an ammonium sulphate suspension containing 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in sodium acetate buffer (100 mM), pH 4.0 containing 1 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**

5. EXPERIMENTAL DATA:

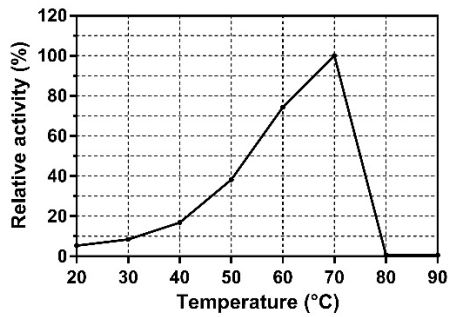
pH Optima



pH Stability



Thermal Optima



Thermal Stability

