

AMYLOGLUCOSIDASE (*Rhizopus Sp.*)

08/23

Non-recombinant

E-AMGPU

EC: 3.2.1.3

Synonyms: glucan 1,4- α -glucosidase; 4- α -D-glucan glucohydrolase; glucoamylase

CAZy Family: GH15

CAS: 9032-08-0

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

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 68,000)
- One major band on isoelectric focusing (pI ~ 8.2), one minor band (pI ~ 8.0)

2. SPECIFICITY:

Hydrolysis of terminal α -1,4 and α -1,6 D-glucose residues successively from non-reducing ends of maltodextrins.

3. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 4.0-5.5 and up to 40°C

pH Optima: 5.5

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

Temperature Optima: 60°C (10 min reaction)

Temperature Stability: up to 50°C (> 75% control activity after 15 min incubation at temperature)

4. STORAGE CONDITIONS:

The enzyme is supplied as a lyophilised powder and should be stored below -10°C. For assay, this enzyme should be dissolved in sodium acetate buffer (100 mM), pH 4.5 containing 0.5 mg/mL BSA.

5. EXPERIMENTAL DATA:

