



## AMYLOGLUCOSIDASE (*Rhizopus sp.*) (Lot 141201)

### E-AMGPU

12/14

(EC 3.2.1.3) 4-alpha-D-glucan glucohydrolase  
CAZy: GH Family 15

### PROPERTIES

#### 1. ELECTROPHORETIC PURITY

- Single major band on isoelectric focusing (pI ~ 8.2); minor band at pH 8.0.
- Single band on SDS-gel electrophoresis (MW = 68,000)

#### 2. SPECIFIC ACTIVITY AND LEVELS OF OTHER ACTIVITIES

Substrate	Activity (U/mg)
Starch (amyloglucosidase)	42.0
p-Nitrophenyl β-maltoside	2.8
Maltose	5.0
Ceralpha Reagent (for the measurement of α-amylase)	< 0.000001
Barley Beta-Glucan (cellulase)	< 0.000001
Wheat arabinoxylan (β-xylanase)	< 0.000001

#### 3. PHYSICOCHEMICAL PROPERTIES

pH Optima:	4.5-5.0
pH Stability:	4.0-8.0
Temperature Optima:	60°C
Temperature Stability:	< 45°C

#### 4. STORAGE CONDITIONS

The enzyme is supplied as a freeze-dried powder, and should be stored at -20°C. This enzyme is recommended for use in all situations where a preparation free of α-amylase is required (e.g. in the Cereal α-amylase assay reagent).