



## AMYLOGLUCOSIDASE (*A. niger*) (Powder) (Lot 140801a)

### E-AMGDFPD

08/14

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

### PROPERTIES

#### 1. ELECTROPHORETIC PURITY:

- Single band on isoelectric focusing (pI ~ 4.0)
- Single major band on SDS-gel electrophoresis (MW ~ 143,500)
- 36,000 U/g (40°C, pH 4.5, soluble starch as substrate)

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

Substrate	Activity (U/g)
Starch (amyloglucosidase)	36,000
p-Nitrophenyl β-maltoside	3,100
Maltose	5,580
Ceralpha Reagent (for the measurement of α-amylase)	2,000
Barley Beta-Glucan (cellulase)	< 0.05
Wheat arabinoxylan (β-xylanase)	< 0.008

#### 3. PHYSICOCHEMICAL PROPERTIES:

pH Optima:	4.0
pH Stability:	4.-5.5
Temperature Optima:	70°C
Temperature Stability:	< 60°C

#### 4. STORAGE CONDITIONS:

The enzyme is supplied as a powder and should be stored at -20°C.

This enzyme is recommended for use in **Total Dietary Fibre** analytical procedures and the **Megazyme Total Starch test method**. It has been specifically produced for use in AOAC Method 2001.03 which must be free from glycerol. This enzyme is used in combination with thermostable α-amylase (Cat. n. E-BLAAM and protease (Cat. no. E-BSPRPD) which also are free of glycerol. The preparation is effectively devoid of cellulase and is free of catalase.