



AMYLOGLUCOSIDASE (*A. niger*) (Lot 111201e)

E-AMGDF

02/14

(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)
- 3260 U/ml (40°C, pH 4.5, soluble starch as substrate)

2. SPECIFIC ACTIVITY AND LEVELS OF OTHER ACTIVITIES:

Substrate	Activity (U/mL)
Starch (amyloglucosidase)	3260
p-Nitrophenyl β -maltoside	205
Maltose	365
Ceralpha Reagent (for the measurement of α -amylase)	108
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 in 50% (v/v) glycerol plus 0.02% (w/v) sodium azide, and should be stored at 4°C.

This enzyme is recommended for use in **Total Dietary Fibre** analytical procedures and the **Megazyme Total Starch test method**. The preparation is effectively devoid of cellulase and is free of catalase.