



AMYLOGLUCOSIDASE (*A. niger*) (Lot 170203a)

E-AMGDF-A-100ML

03/19

(EC 3.2.1.3) 4-alpha-D-glucan glucohydrolase

CAZy Family: GH15

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on isoelectric focusing (pI ~ 4.0)
- Single major band on SDS-gel electrophoresis (MW ~ 143,500)
- 3,260 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 β-Glucan (cellulase)	< 0.05
Wheat arabinoxylan (β-xylanase)	< 0.008

3. PHYSICOCHEMICAL PROPERTIES:

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

4. STORAGE CONDITIONS:

The enzyme is supplied in 50% (v/v) glycerol plus 0.09% (w/v) sodium azide, and should be stored at 4°C.

This enzyme is recommended for use with the ANKOM^{TDF} Diteary Fiber Analyzer.

The preparation is effectively devoid of cellulase and is free of catalase.