



AMYLOGUCOSIDASE (*A. niger*) (Lot 100201b)

E-AMGDF100

07/2011

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.