AMYLOGLUCOSIDASE (*Aspergillus niger*) GLYCEROL FREE

08/23

Non-recombinant

E-AMGDFNG-20ML

EC: 3.2.1.3

Synonyms: glucan 1,4-alpha-glucosidase; 4-alpha-D-glucan glucohydrolase; glucoamylase

CAZy Family: GH15

CAS: 9032-08-0

Refer to the product lot number Certificate of Analysis for lot specific properties.

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on isoelectric focusing (pI ~ 4.0)
- Single major band on SDS-gel electrophoresis (MW ~ 143,500)

Note: This activity is twice that of purified AMG preparations used in TDF assays (e.g. E-AMGDF-100ML), so the volume of enzyme used per assay can be halved.

2. SPECIFICITY:

Hydrolysis of terminal (1,4)-linked α-D-glucose residues successively from non-reducing ends of the chains with release of β-D-glucose.

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 buffered solution plus 0.02% (w/v) sodium azide and should be stored at 4°C.
This enzyme is recommended for use in **Total Dietary Fiber** analytical procedures.
The preparation is free of glycerol so can be used in TDF procedures where glycerol is used as an internal standard (e.g. AOAC Method 2001.03/AACC Method 32-41.01; the Matsutani Method).
The preparation is effectively devoid of cellulase and is free of catalase.