

**AMYLOGLucosidase (*Aspergillus niger*) POWDER (Lot 141201A)****E-AMGDFFD****02/22**

EC: 3.2.1.3

Synonyms: 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)

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

Substrate	Activity (U/g)
Starch (amyloglucosidase)	26,000
<i>p</i> -Nitrophenyl $\beta$ -maltoside	2,260
Maltose	4,030
Ceralpha Reagent (for the measurement of $\alpha$ -amylase)	1,440
Barley $\beta$ -Glucan (cellulase)	< 0.005
Wheat arabinoxylan ( $\beta$ -xylanase)	< 0.02

**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 as a powder and should be stored below -10°C.

This enzyme is recommended for use in **Total Dietary Fiber** 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  $\alpha$ -amylase (Cat. no. **E-BLAAM**, except E-BLAAM-A-100ML) and protease (Cat. no. **E-BSPRPD**) which also are free of glycerol. The preparation is effectively devoid of cellulase and is free of catalase.