endo-1,4-β-MANNANASE from *A. niger* (Lot 151001b)

E-BMANN **08/19**

(EC 3.2.1.78) 4-beta-D-mannan mannanohydrolase

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW = 48,000)
- Single major band on isoelectric focusing (pI=3.6)

2. SPECIFIC ACTIVITY AND LEVEL OF OTHER ACTIVITIES:

One Unit of mannanse activity is defined as the amount of enzyme required to release one µmole of reducing sugar equivalents from the substrate employed at pH 4.0 and 40°C

Substrate	Specific Activity (U/mg protein)
Carob galactomannan (10 mg/ml, pH 4.0, 40°C)	58
CMC4M	0.066
Xylan	0.001
p-NP-α-galactoside	< 0.015
p-NP-β-galactoside	< 0.001
p-NP-β-xyloside	< 0.001
p-NP-β-mannoside	< 0.0001
p-NP-α-glucoside	< 0.0001
p-NP-β-glucoside	< 0.0001

3. PHYSICOCHEMICAL PROPERTIES:

pH Optima:	3.0
pH Stability:	3.0-8.0
Temperature Optima:	60°C
Temperature Stability:	< 70°C

4. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension in 0.02% sodium azide and should be stored at 4°C.