



endo-1,4- β -XYLANASE M4 (from *A. niger*) (Lot 101001d)

E-XYAN4

09/15

(EC 3.2.1.8) 4-beta-D-xylan xylanohydrolase

CAZy: GH Family II

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on isoelectric focusing (pI ~ 3.7)
- Single band on SDS-gel electrophoresis (MW = 25,000)

2. SPECIFIC ACTIVITY AND LEVEL OF OTHER ACTIVITIES:

Substrate	Specific Activity (U/mg at 40°C; pH 4.5)
Wheat arabinoxylan	79.3
CM-Cellulose 4M	39.8
CM-Cellulose 7M	1.9
Barley β -Glucan	45
Carob Galactomannan	< 0.02
Starch	< 0.04
p-Nitrophenyl α -L-arabinofuranoside	< 0.0006
p-Nitrophenyl β -xyloside	< 0.0002

3. PHYSICOCHEMICAL PROPERTIES:

pH Optima:	4.5
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.

For the assay, enzyme preparation is diluted in 0.1M sodium acetate buffer pH 4.5 containing BSA (0.5 mg/mL). If BSA is excluded from the buffer lower activities are obtained.