



endo-1,4- β -XYLANASE M3 (from *T. longibrachiatum*) (Lot 130401b)

E-XYTR3

05/18

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

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on isoelectric focusing (pI ~ 9.0)
- Single band on SDS-gel electrophoresis (MW = 20,000)

2. SPECIFIC ACTIVITY AND LEVEL OF OTHER ACTIVITIES:

Substrate	Specific Activity (U/mg Protein)
Wheat arabinoxylan	105
CM-Cellulose 4M	0.03
Barley β -Glucan	< 0.0006
Carob Galactomannan	< 0.0001
Starch	< 0.0001
p-Nitrophenyl α -L-arabinofuranoside	< 0.007
p-Nitrophenyl β -xyloside	< 0.0001

One Unit of Xylanase activity is the amount of enzyme required to release one micromole of reducing sugar equivalent from wheat arabinoxylan per minute at pH 6.0 and 40°C.

3. PHYSICOCHEMICAL PROPERTIES:

pH Optima:	6.0
pH Stability:	3.0-8.0
Temperature Optima:	50°C
Temperature Stability:	< 55°C

4. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension at 1600 U/mL in 0.02% sodium azide and should be stored at 4°C. It is recommended that all buffers used for dilution contain BSA (1mg/mL).