



endo-1,4- β -XYLANASE MI (from *Trichoderma viride*) (I20101a)

E-XYTRI

04/13

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

CAZy: GH Family II

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single major band on isoelectric focusing (pI 8.6); minor band at pI 8.4
- Single major band on SDS-PAGE (MW = 20,500); minor band 14,000

2. SPECIFIC ACTIVITY AND LEVEL OF OTHER ACTIVITIES:

Substrate	Specific Activity (U/mg Protein)
Wheat arabinoxylan	230
CM-Cellulose 4M	0.02
CM-Cellulose 7M	0.014
Barley β -Glucan	0.02
Tamarind amyloid	0.015
Carob Galactomannan	0.006
Starch	0.005
<i>p</i> -Nitrophenyl α -L-arabinofuranoside	0.015
<i>p</i> -Nitrophenyl β -xyloside	< 0.0002
<i>p</i> -Nitrophenyl α -glucoside	< 0.0001
<i>p</i> -Nitrophenyl β -glucoside	< 0.0001
Protazyme AK (<i>endo</i> -protease)	undetectable

3. PHYSICOCHEMICAL PROPERTIES:

pH Optima:	4.5-5.0
pH Stability:	3.5-8.0
Temperature Optima:	50°C
Temperature Stability:	< 55°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.