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Megazyme

endo-1,4-β-D-XYLANASE from *Aeromonas punctata* (Lot 101201a)

Recombinant

E-XYNAP **02/13**

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

CAZy: GH Family 10

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 39,400)
- Single major band on isoelectric focusing (pI ~ 5.6)

2. SPECIFIC ACTIVITY:

11.9 U/mg protein (on wheat arabinoxylan) at pH 6.5 and 40°C.

One Unit of xylanase activity is defined as the amount of enzyme required to release one µmole of xylose reducing-sugar equivalents per minute from wheat arabinoxylan (5 mg/mL) in sodium phosphate buffer (50 mM) pH 6.5.

3. RELATIVE RATES OF HYDROLYSIS OF SUBSTRATES:

Substrate	%
Wheat Arabinoxylan	100
CM-Cellulose 4M	0.3
Barley β-Glucan	4.0

Action on polysaccharide substrates was determined at a final substrate concentration of 5 mg/mL in sodium phosphate buffer (50 mM), pH 6.5 at 40°C.

4. PHYSICOCHEMICAL PROPERTIES:

pH Optima:	6.0 - 6.5
pH Stability:	6.0 - 9.0 (> 75% control activity after 24 hours at 4°C)
Temperature Optima:	50°C (10 min. reaction)
Temperature Stability:	up to 40°C (> 90% control activity after 15 min.)

5. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension in 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in sodium phosphate buffer (100 mM), pH 6.5 containing 0.5 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**