



endo-POLYGALACTURONANASE M2 from *A. aculeatus* (Lot 20701b)

E-PGALUSP (based on isoelectric point, this is most likely, PGI)
 (EC 3.2.1.15) (1->4)-alpha-D-galacturonan glycanohydrolase
 CAZy: Gh Family 28

12/15

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Major band on SDS-gel electrophoresis (MW = 42,000); very minor bands at 24,000 and 20,000
- Single major band on isoelectric focusing (pI 4.8)

2. SPECIFIC ACTIVITY AND LEVEL OF OTHER ACTIVITIES:

Substrate	Specific Activity (U/mg Protein)
Polygalacturonic acid (<i>endo</i> -polygalacturonanase)	375
Galactazyme Tablets (<i>endo</i> -Galactanase)	< 0.002
Arabinazyme Tablets (<i>endo</i> -Arabinanase)	< 0.001
p-NP- α -L-arabinofuranoside (arabinofuranosidase)	< 0.0004

3. PHYSICOCHEMICAL PROPERTIES:

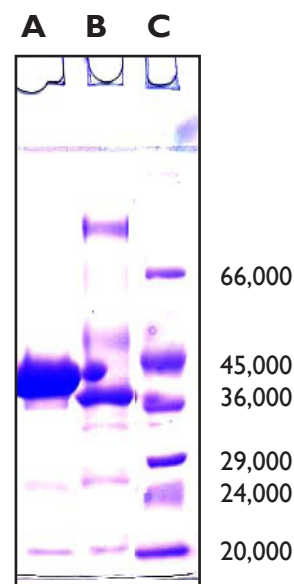
pH Optima: 5.5
 pH Stability: 4.0-6.0
 Temp Optima: 40°C
 Temp Stability: < 45°C

4. STORAGE CONDITIONS:

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

5. SDS-PAGE of polygalacturonanases

- A. Polygalacturonanase M2 (Cat no. **E-PGALUSP**)
- B. Polygalacturonanase M1
- C. Molecular weight standards



6. REFERENCES:

Combo, A. M. M., Aguedo, M., Goffin, D., Wathelet, B. & Paquot, M. (2012). Enzymatic production of pectic oligosaccharides from polygalacturonic acid with commercial pectinase preparations. *Food and Bioproducts Processing* **90**, 588–596.