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Certificate of Analysis

Product: Pectate Lyase (*Aspergillus sp*.)
Cat. No: E-PCLYAN
Lot. No: 170902D
Expiry Date: 2026-12-31

Specific activity and level of other activities:

180 U/mg protein (40°C, pH 8.0 on polygalacturonic acid)
One Unit of pectate lyase activity is defined as the amount of enzyme required to release one µmole of galacturonic acid per minute from polygalacturonic acid (2.5 mg/mL) in Tris.HCl buffer (50 mM), pH 8.0 at 40°C.

Substrate	%
Polygalacturonic acid (pectate lyase)	100 (Tris-Bispropane, pH 8.0)
Polygalacturonic acid (pectate lyase)	47.5 (CAPS buffer, pH 10.8)
Polygalacturonic acid (pectate lyase)	19.5 (Tris.HCl buffer, pH 8.0)
Polygalacturonic acid (endo-Polygalacturonanase)	< 0.0015
Galactazyme Tablets (endo-Galactanase)	< 0.0015
Arabinazyme Tablets (endo-Arabinanase)	< 0.0003

Actions on polysaccharides was determined at a final substrate concentration 2.5 mg/mL in the relevant buffer. Activity was monitored at 235 nm in a recording spectrophotometer. endo-Polygalacturonanase, endo-arabinanase and endo-galactanase were assayed at pH 4.5 and 40°C.

This lot meets our specification.

Signature: Kevin O'Leary **Date:** 2024-06-14

Kevin O'Leary
QC Specialist
(*as this certificate is a computer printout, it has not been signed or dated by hand*)

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