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Certificate of Analysis

Product: Cellulase (*endo*-1,4-β-D-Glucanase) (*Aspergillus niger*)
Cat. No: E-CELAN
Lot. No: 101103A
Expiry Date: December, 2026

Specific activity and level of other activities:
60 U/mg protein (on CM-cellulose) at pH 4.5 and 40°C
One Unit of *endo*-cellulase is defined as the amount of enzyme required to release one µmole of glucose per minute from CM-cellulose (10 mg/mL) in sodium acetate buffer (100 mM), pH 4.5 at 40°C.

Substrate	Relative Hydrolysis Rate, %
CM-Cellulose 4M	100
Barley β-Glucan	164
Konjac Glucomannan	0.19
Xyloglucan (Tamarind)	0.02
Carob Galactomannan	< 0.02
CM-Pachyman	< 0.01
Starch	< 0.02
*p*NP-α-Glucoside	< 0.004
*p*NP-β-Glucoside	< 0.0003
*p*NP-β-Xyloside	< 0.0003

Action on *p*NP-substrates and polysaccharides or oligosaccharides was determined at a final substrate concentration of 10 mM and 10 mg/mL, respectively, in sodium acetate buffer (100 mM), pH 4.5 at 40°C.

This lot meets our specification.

Signature: Ciara McLoughlin **Date:** 08.Nov.2022

Ciara McLoughlin

QC Specialist

(*as this certificate is a computer printout, it has not been signed or dated by hand*)

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