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Certificate of Analysis

Product: *exo*-1,3-β-D-Glucanase (*Trichoderma virens*)
Cat. No: E-EXBGTV
Lot. No: 241081
Expiry Date: 2028-12-31

Specific activity and level of other activities:

100 U/mg protein (on Laminarin) at 4.5 and 50°C
One Unit of exo-1,3-β-glucanase activity is defined as the amount of enzyme required to release one µmole of glucose reducing sugar equivalents per minute from laminarin (Laminaria digitata) (5 mg/mL) in sodium acetate buffer (100 mM) at pH 4.5 and 50°C.

Substrate	%
Laminarin (*Laminaria digitata*)	100
Scleroglucan (1mg/mL)	~21
Barley β-Glucan	~0.29
CM-Cellulose 4M	~0.015
Maltose	~0.0082
Cellobiose	~0.0043
*p*NP-β-D-glucoside	~0.0032
*p*NP-β-D-xyloside	~0.0014
*p*NP-β-D-galactoside	~0.0009
*p*NP-β-D-mannoside	~0.0008
CM-Curdlan (2.5 mg/mL)	< 0.0001

Unless stated in the table above, action on disaccharide and polysaccharide substrates was determined at a final substrate concentration of 2 mg/mL and 10 mg/mL, respectively, in sodium acetate buffer (100 mM), pH 4.5 at 40°C. Action on *p*NP-substrates was determined at a final substrate concentration of 5 mM in sodium acetate buffer (100 mM), pH 4.5 at 40°C.

This lot meets our specification.

Signature: Ciara McLoughlin **Date:** 2024-10-25

Ciara McLoughlin

Quality Manager

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

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