



Megazyme

Megazyme Building 1,  
Bray Business Park,  
Bray, Co. Wicklow,  
A98 YV29,  
Ireland.  
Tel: + 353 1 2861220 Fax: + 353 1 2861264

## Certificate of Analysis

**Product:** *exo-1,3-β-D-Glucanase (Trichoderma virens)*  
**Cat. No:** E-EXBGTV  
**Lot. No:** 141101B  
**Expiry Date:** December, 2025

### Specific activity and level of other activities:

#### 120 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  $\mu$ mole 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 ( <i>Laminaria digitata</i> )	100
Scleroglucan (1mg/mL)	~21
Barley $\beta$ -Glucan	~0.29
CM-Cellulose 4M	~0.015
Maltose	~0.0082
Cellobiose	~0.0043
<i>p</i> NP- $\beta$ -D-glucoside	~0.0032
<i>p</i> NP- $\beta$ -D-xyloside	~0.0014
<i>p</i> NP- $\beta$ -D-galactoside	~0.0009
<i>p</i> NP- $\beta$ -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.



Megazyme Building 1,  
Bray Business Park,  
Bray, Co. Wicklow,  
A98 YV29,  
Ireland.  
Tel: + 353 1 2861220 Fax: + 353 1 2861264

This lot meets our specification.

Signature: *Ciara McLoughlin*

Date: 26.Jan.2023

Ciara McLoughlin

QC Specialist

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