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 + β-Glucosidase
Cat. No: E-EXBGOS
Lot. No: 210901
Expiry Date: December, 2025

Specific activity and level of other activities:

Activity:

100 U/mL *exo*-1,3-β-D-Glucanase
One Unit of exo-1,3-β-glucanase activity is the amount of enzyme required to release one µmole of glucose per minute from laminarin (10 mg/mL; Laminaria digitata) in sodium acetate buffer (100 mM), pH 4.0 and 40°C.

20 U/mL β-Glucosidase
One Unit of β-glucosidase activity is defined as the amount of enzyme required to release one µmole of p-nitrophenyl per minute from p-nitrophenyl β-glucoside in sodium acetate buffer (100 mM), pH 4.0 at 40°C.

Specificity:

***exo*-1,3-β-glucanase:** Successive hydrolysis of β-D-glucose units from the non-reducing ends of (1,3)-β-D-glucans, releasing α-glucose.

β-glucosidase: Hydrolysis of terminal, non-reducing β-D-glucosyl residues with release of β-D-glucose.

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Rates of Hydrolysis of substrates

Substrate	U/mL
Laminarin	100
Laminaridextrin	~ 110
Scleroglucan	~ 60.0
p-Nitrophenyl β-glucoside	~ 20.0
CM-Cellulose 4M	~ 2.5
Starch	< 0.01
Ceralpha	< 0.01

Actions on *p*NP-substrates, polysaccharides or oligosaccharides was determined at a final substrate concentration of 2.5 mM and 5 mg/mL, respectively, in sodium acetate buffer (100 mM), pH 4.0 at 40°C.

This lot meets our specification.

Signature: Ida Lazewska Date: 19.Oct.2021

Ida Lazewska
Quality Control Laboratory Manager

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