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: 241139
Expiry Date: 2028-12-31

Specific activity and level of other activities:

Activity:

100 U/mL *exo*-1,3-β-D-Glucanase (*Trichoderma sp*.)
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 (*Aspergillus sp*.)
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.

© 2024, Neogen Corporation; © 2024, Megazyme. All rights reserved.
Neogen is a registered trademark of Neogen Corporation. Megazyme is a registered trademark of Megazyme Ltd.

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

Rates of Hydrolysis of substrates

Substrate	U/mL
Laminarin	100
p-Nitrophenyl β-glucoside	20.0
CM-Cellulose 4M	< 0.02
Starch	< 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.

Note: The raw material source of β-Glucosidase component has been changed to an alternative *Aspergillus sp*. source. For full details please review **here**.

This lot meets our specification.

Signature: Ciara McLoughlin **Date:** 2024-12-02

Ciara McLoughlin

Quality Manager

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

© 2024, Neogen Corporation; © 2024, Megazyme. All rights reserved.
Neogen is a registered trademark of Neogen Corporation. Megazyme is a registered trademark of Megazyme Ltd.