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

Certificate of Analysis

Product: β-D-Xylosidase (*Selenomonas ruminantium*)
Cat. No: E-BXSR-1KU
Lot. No: 151001C
Expiry Date: December, 2026

Specific activity and level of other activities:

90 U/mg protein (on *p*NP-β-D-xyloside) at pH 5.3 and 40°C
~ 300 U/mg protein (on xylobiose) at pH 5.3 and 40°C
One Unit One Unit of β-xylosidase activity is defined as the amount of enzyme required to release one µmole of p-nitrophenol per minute from p-nitrophenyl-β-D-xylopyranoside (5 mM) in sodium succinate buffer (50 mM), pH 5.3 at 40°C.

Substrate	%
*p*NP-β-D-xyloside	100
*p*NP-α-L-arabinofuranoside	~ 7.0
*p*NP-β-L-arabinofuranoside	< 0.01
*p*NP-α-D-glucopyranoside	< 0.01
*p*NP-β-D-glucopyranoside	< 0.01
*p*NP-β-D-glucuronide	< 0.01
*p*NP-α-D-xyloside	< 0.01
*p*NP-α-D-galactopyranoside	< 0.01
*p*NP-β-D-galactopyranoside	< 0.01
*p*NP-α-D-mannopyranoside	< 0.01
*p*NP-β-D- mannopyranoside	< 0.01

Action on *p*NP-substrates was determined at a final substrate concentration of 5 mM in sodium succinate buffer (50 mM), pH 5.3 at 40°C.

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This lot meets our specification.

Signature:  **Date:** 30.Sep.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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