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

Certificate of Analysis

Product: α-Rhamnosidase (prokaryote)
Cat. No: E-RHAMS
Lot. No: 240920
Expiry Date: 2027-12-31

Specific activity and level of other activities (as a percentage of α-L-rhamnosidase activity):

110 U/mg protein at 6.5 and 50°C
~ 78 U/mg protein at 6.5 and 40°C

One Unit of α-L-rhamnosidase activity is defined as the amount of enzyme required to release one µmole of p-nitrophenol (pNP) per minute from p-nitrophenyl-α-L-rhamnoside (5 mM) in sodium phosphate buffer (100 mM), pH 6.5 at 50°C.

Substrate	Enzyme Measured (at pH 6.5 and 50°C)	Activity (%)
*p*NP-α-L-rhamnoside	α-L-rhamnosidase	100
*p*NP-α-L-arabinofuranoside	α-L-arabinofuranosidase	< 0.001
*p*NP-α-L-arabinopyranoside	α-L-arabinopyranosidase	< 0.001
*p*NP-α-D-Galactoside	α-D-Galactosidase	< 0.001
*p*NP-β-D-Galactoside	β-D-Galactosidase	< 0.001
*p*NP-α-D-Glucoside	α-D-Glucosidase	< 0.001
*p*NP-β-D-Glucoside	β-D-Glucosidase	< 0.001
*p*NP-α-D-Mannoside	α-D-Mannosidase	< 0.001
*p*NP-β-D-Mannoside	β-D-Mannosidase	< 0.001
*p*NP-α-D-Xyloside	α-D-Xylosidase	< 0.001
*p*NP-β-D-Xyloside	β-D-Xylosidase	< 0.001

Action on *p*NP-substrates was determined at a final substrate concentration of 2.5 mM in sodium phosphate buffer (100 mM), pH 6.5 at 40°C.

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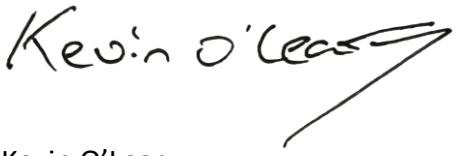
This lot meets our specification.

Signature: 

Date: 2024-09-24

Kevin O'Leary
QC Specialist

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

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