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-Galactosidase (*Aspergillus niger)*
Cat. No: E-BGLAN
Lot. No: 240823
Expiry Date: 2028-12-31

Specific activity and level of other activities:

260 U/mg protein (on *p*-nitrophenyl-β-D-galactoside) at pH 4.5 and 40°C
One Unit of β-galactosidase activity is defined as the amount of enzyme required to release one µmole of p-nitrophenol per minute from p-nitrophenyl-β-D-galactoside (10 mM) in sodium acetate buffer (100 mM), pH 4.5 at 40°C.

Substrate	%
*p*NP-β-galactoside	100
*p*NP-α-galactoside	<0.01
*p*NP-α-L-arabinofuranoside	<0.3
*p*NP-α-glucoside	<0.001
*p*NP-β-glucoside	<0.01
Ceralpha (α-amylase)	<0.001
Sucrose (invertase)	<0.001
Maltose (maltase)	<0.01

Action on *p*NP-substrates and polysaccharides or oligosaccharides was determined at a final substrate concentration of 5 mM and 10 mg/mL, respectively, in sodium acetate buffer (100 mM), pH 4.5 at 40°C.

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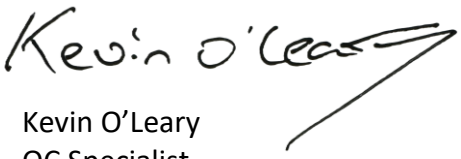
This lot meets our specification.

Signature:  **Date:** 2024-08-21

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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