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

Certificate of Analysis

Product: Lichenase (endo-1,3:1,4-β-D-Glucanse) (*Bacillus subtilis*)
Cat. No: E-LICHN
Lot. No: 150101D
Expiry Date: December, 2026

Specific activity and level of other activities:

250 U/mg protein (on barley β-glucan) at pH 6.5 and 40°C
One Unit of lichenase activity is defined as the amount of enzyme required to release one µmole of glucose reducing-sugar equivalents per minute from barley β-glucan (10 mg/mL) in sodium phosphate buffer (100mM), pH 6.5 at 40°C

Substrate	%
Barley β-glucan	100
CM-Cellulose	< 0.00006
pNP-β-glucoside	< 0.00002
Blocked 4-nitrophenyl-α-maltoheptaoside (Ceralpha Reagent)	< 0.000008
CM-Pachyman	< 0.000002
p-Nitrophenyl β-D-maltoside (AMG Reagent)	< 0.000001

Action on *p*NP-substrates and polysaccharides or oligosaccharides was determined at a final substrate concentration of 2.5 mM and 5 mg/mL, respectively, in sodium phosphate buffer (100 mM), pH 6.5 at 40°C.

This lot meets our specification.

Signature: Ciara McLoughlin **Date:** 09.Nov.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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