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Certificate of Analysis

Product: Chitinase (*Clostridium thermocellum*)
Cat. No: E-CHITN
Lot. No: 240904
Expiry Date: 2027-12-31

Specific activity and level of other activities:

0.2 U/mg protein (40°C, pH 6.2 on *p*-nitrophenyl-β-triacetylchitotriose)
One Unit of chitinase activity is defined as the amount of enzyme required to release one µmole of *p*-nitrophenol per minute from *p*-nitrophenyl-β-triacetylchitotriose (2.5 mM) in MES buffer (100 mM), pH 6.2 at 40°C.

Substrate	%
p-Nitrophenyl N,N',N''-triacetyl-β-chitotriose	100
p-Nitrophenyl-N,N'-diacetyl-β-chitobioside	42
Colloidal chitin (+ hexosaminidase)	32
Colloidal chitin	11

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 MES buffer (100 mM), pH 6.2 at 40°C.

This lot meets our specification.

Signature: Kevin O'Leary **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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