

Chitinase from *Clostridium thermocellum*

Product Information

Cat#	DIA-518
Source	<i>Clostridium thermocellum</i>
Description	High purity chitinase (<i>Clostridium thermocellum</i>) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Form	Suspension
Activity	~ 0.3 U/mg (40 °C, pH 6.2 on p-nitrophenyl-β-triacetylchitotriose)
CAS No.	9001-06-3
Optimum temperature	40 °C
Stability	> 1 year under recommended storage conditions
Unit Definition	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.
Storage	2–8 °C
Synonyms	Chitodextrinase; 1,4-β-poly-N-acetylglucosaminidase
Buffer	3.2 M ammonium sulphate
Molecular Weight	53000 Da
Concentration	~ 3 U/mL
Specificity	Random hydrolysis of N-acetyl-beta-D-glucosaminide (1-4)-beta-linkages in chitin and chitodextrins.