

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Exonuclease III (E.coli)
Catalog Number:	M0206L
Concentration:	100,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to produce 1 nmol of acid-soluble total nucleotide in a total reaction volume of 50 μl in 30 minutes at 37°C in 1X NEBuffer 1 with 0.15 mM sonicated duplex [3H]-DNA.
Lot Number:	10031189
Expiration Date:	12/2020
Storage Temperature:	-20°C
Storage Conditions:	200 mM KCl, 5 mM KPO4 , 0.05 mM EDTA, 5 mM βME, 50 % Glycerol, 200 μg/ml BSA, (pH 6.5 @ 25°C)
Specification Version:	PS-M0206S/L v1.0

Exonuclease III (E.coli) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0206LVIAL	Exonuclease III (E.coli)	10018334	Pass	
B7001SVIAL	NEBuffer™ 1	0101804	Pass	

Assay Name/Specification	Lot # 10031189
Endonuclease Activity (Nicking) A 50 μ I reaction in NEBuffer 1 containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 300 units of Exonuclease III (E. coli) incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Exonuclease III (E. coli) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
qPCR DNA Contamination (E. coli Genomic) A minimum of 100 units of Exonuclease III (E. coli) is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	Pass

This product has been tested and shown to be in compliance with all specifications.





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Michael Tonello Packaging Quality Control Inspector 17 Dec 2018

