

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: 10007562
Expiration Date: 05/2020
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 (<i>E.coli</i>) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0206LVIAL	Exonuclease III (<i>E.coli</i>)	10007563	Pass
B7001SVIAL	NEBuffer™ 1	0101804	Pass

Assay Name/Specification	Lot # 10007562
<p>Protein Purity Assay (SDS-PAGE) Exonuclease III (<i>E. coli</i>) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass
<p>qPCR DNA Contamination (<i>E. coli</i> Genomic) A minimum of 100 units of Exonuclease III (<i>E. coli</i>) is screened for the presence of <i>E. coli</i> genomic DNA using SYBR® Green qPCR with primers specific for the <i>E. coli</i> 16S rRNA locus. Results are quantified using a standard curve generated from purified <i>E. coli</i> genomic DNA. The measured level of <i>E. coli</i> genomic DNA contamination is ≤ 1 <i>E. coli</i> genome.</p>	Pass
<p>Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 300 units of Exonuclease III (<i>E. coli</i>) incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass

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

John D. Greci

John Greci
Production Scientist
17 May 2018

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
17 May 2018