

New England Biolabs Certificate of Analysis

Product Name: Exonuclease III (*E.coli*)
Catalog Number: M0206S
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.
Packaging Lot Number: 10167475
Expiration Date: 10/2024
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
M0206SVIAL	Exonuclease III (<i>E.coli</i>)	10167474	Pass
B7001SVIAL	NEBuffer™ 1	10150375	Pass

Assay Name/Specification	Lot # 10167475
<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>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>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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Pengda Zhang
Production Scientist
19 Oct 2022



Michael Tonello
Packaging Quality Control Inspector
09 Nov 2022