

New England Biolabs Certificate of Analysis

Product Name: *Lambda Exonuclease*
Catalog Number: *M0262L*
Concentration: *5,000 U/ml*
Unit Definition: *One unit of Lambda Exonuclease is defined as the amount of enzyme that is required to digest 135 pmol of dsDNA in 10 minutes at 37°C.*
Packaging Lot Number: *10324845*
Expiration Date: *04/2028*
Storage Temperature: *-20°C*
Storage Conditions: *25 mM Tris-HCl, 50 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, (pH 8.0 @ 25°C)*
Specification Version: *PS-M0262S/L/V v2.0*

Lambda Exonuclease Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
M0262LVIAL	Lambda Exonuclease	10324843	Pass
B0262SVIAL	Lambda Exonuclease Reaction Buffer	10298522	Pass

Assay Name/Specification	Lot # 10324845
Endonuclease Activity (Nicking) A 50 µl reaction in Lambda Exonuclease Reaction Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 50 units of Lambda Exonuclease incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Lambda Exonuclease is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 5 units of Lambda Exonuclease is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
qPCR DNA Contamination (E. coli Genomic) A minimum of 5 units of Lambda Exonuclease is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA	Pass

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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.	

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

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06 Apr 2026



Michael Tonello
Packaging Quality Control Inspector
22 Jun 2026