

*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:	Lambda Exonuclease
Catalog Number:	M0262L
Concentration:	5,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to produce 10 nmol of acid-soluble deoxyribonucleotide from double-stranded substrate in a total reaction volume of 50 μl in 30 minutes at 37°C in 1X Lambda Exonuclease Reaction Buffer with 1 μg sonicated duplex [ ³H]-DNA.
Packaging Lot Number:	10223531
Expiration Date:	12/2025
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 v1.0

Lambda Exonuclease Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0262LVIAL	Lambda Exonuclease	10221812	Pass	
B0262SVIAL	Lambda Exonuclease Reaction Buffer	10173721	Pass	

Assay Name/Specification	Lot # 10223531
<b>Endonuclease Activity (Nicking)</b> 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
<b>RNase Activity (Extended Digestion)</b> 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

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





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