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New England Biolabs Certificate of Analysis

Product Name: Lambda Protein Phosphatase

Catalog Number: P0753L

Concentration: 400,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that hydrolyzes 1 nmol

of p-Nitrophenyl Phosphate in 1 minute at 30°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10211579
Expiration Date: 09/2025
Storage Temperature: -80°C

Storage Conditions: 100 mM NaCl, 50 mM HEPES, 2 mM DTT, 0.1 mM EGTA, 0.1 mM MnCl2,

50 % Glycerol , 0.01 % Brij 35, (pH 7.5 @ 25°C)

Specification Version: PS-P0753S/L v1.0

Lambda Protein Phosphatase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
P0753LVIAL	Lambda Protein Phosphatase	10201894	Pass	
B1761SVIAL	10mM MnCl2	10167824	Pass	
B0761SVIAL	NEBuffer for Protein MetalloPhosphatases (PMP)	10193048	Pass	

Assay Name/Specification	Lot # 10211579
Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart® Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 400 units of Lambda Protein Phosphatase (Lambda PP) incubated for 4 hours at 30°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 400 units of Lambda Protein Phosphatase (Lambda PP) incubated for 4 hours at 30°C releases <0.1% of the total radioactivity.	Pass
Protease Activity (SDS-PAGE) A 20 µl reaction in 1X CutSmart® Buffer containing 24 µg of a standard mixture of proteins and a minimum of 2,000 units of Lambda Protein Phosphatase (Lambda PP) incubated for 20 hours at 37°C, results in no detectable degradation of the protein mixture as determined by SDS-PAGE with Coomassie Blue detection.	Pass



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Assay Name/Specification	Lot # 10211579
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 400 units of Lambda Protein Phosphatase (Lambda PP) 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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Alicia Bielik Production Scientist

19 Sep 2023

Michael Tonello

Packaging Quality Control Inspector

06 Oct 2023

