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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: 10148381
Expiration Date: 04/2024
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
P0753LVIAL	Lambda Protein Phosphatase	10148380	Pass	
B1761SVIAL	10mM MnCl2	10129287	Pass	
B0761SVIAL	NEBuffer for Protein MetalloPhosphatases (PMP)	10140897	Pass	

Assay Name/Specification	Lot # 10148381
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
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
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



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Assay Name/Specification	Lot # 10148381
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

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

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Alicia Bielik

Production Scientist 22 Apr 2022 Erin Varney

Packaging Quality Control Inspector

22 Apr 2022

