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New England Biolabs Certificate of Analysis

Product Name: Pstl
Catalog Number: R0140L
Concentration: 20,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10091776
Expiration Date: 07/2022
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.15% Triton X-100, 200 µg/ml BSA

Specification Version: PS-R0140S/L v1.0

Pstl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0140LVIAL	PstI	10078805	Pass	
B7203SVIAL	NEBuffer™ 3.1	10085493	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084972	Pass	

Assay Name/Specification	Lot # 10091776
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of Lambda DNA and a minimum of 100 units of Pstl incubated for 16 hours at 37°C results in a DNA pattern free of	Pass
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity) After a 100-fold over-digestion of Lambda DNA with Pstl, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Pstl.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 200 units of Pstl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Blue-White Screening (Terminal Integrity)	Pass
A sample of pUC19 vector linearized with a 10-fold excess of Pstl, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in	



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Assay Name/Specification	Lot # 10091776
<1% white colonies.	
Protein Purity Assay (SDS-PAGE)	Pass
Pstl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	

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.

Penghua Zhang Production Scientist 24 Nov 2020 Josh Hersey Packaging Qua

Packaging Quality Control Inspector

24 Nov 2020

