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New England Biolabs Certificate of Analysis

Product Name: Pstl
Catalog Number: R0140T
Concentration: 100,000 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: 10118606
Expiration Date: 08/2023
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-R0140T/M v1.0

Pstl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0140TVIAL	PstI	10118605	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10108733	Pass	
B6003SVIAL	NEBuffer™ r3.1	10110766	Pass	

Assay Name/Specification	Lot # 10118606
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 detectable nuclease degradation as determined by agarose gel electrophoresis.	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) A sample of pUC19 vector linearized with a 10-fold excess of PstI, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Protein Purity Assay (SDS-PAGE) Pstl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass



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Assay Name/Specification	Lot # 10118606
Ligation and Recutting (Terminal Integrity)	Pass
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.	

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

23 Aug 2021

Michael Tonello

Packaging Quality Control Inspector

23 Aug 2021



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