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## New England Biolabs Certificate of Analysis

Product Name: Pstl

Catalog Number: R0140M
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: 10152536
Expiration Date: 05/2024
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0140MVIAL	PstI	10150999	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10149690	Pass	
B6003SVIAL	NEBuffer™ r3.1	10146823	Pass	

Assay Name/Specification	Lot # 10152536
Ligation and Recutting (Terminal Integrity) After a 100-fold over-digestion of Lambda DNA with Pstl, >95% of the DNA fragments	Pass
can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Pstl.	
Non-Specific DNase Activity (16 Hour)	Pass
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.	
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	
<1% white colonies.	
Exonuclease Activity (Radioactivity Release)	Pass
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	



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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 May 2022

Michael Tonello

Packaging Quality Control Inspector

23 May 2022



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