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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: 10126463
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	
R0140MVIAL	PstI	10118607	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10121393	Pass	
B6003SVIAL	NEBuffer™ r3.1	10116057	Pass	

Assay Name/Specification	Lot # 10126463
Protein Purity Assay (SDS-PAGE)	Pass
Pstl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
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 PstI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
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 PstI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	



R0140M / Lot: 10126463

Page 1 of 2

Assay Name/Specification	Lot # 10126463
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.

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Penghaa Zhang Production Scientist

03 Jan 2022

Michael Tonello

Packaging Quality Control Inspector

03 Jan 2022

