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## New England Biolabs Certificate of Analysis

Product Name: Pstl
Catalog Number: R0140S
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: 10155030
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-R0140S/L v1.0

Pstl Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0140SVIAL	PstI	10149537	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10153339	Pass	
B6003SVIAL	NEBuffer™ r3.1	10146824	Pass	

Assay Name/Specification	Lot # 10155030
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.	
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	
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 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	



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Assay Name/Specification	Lot # 10155030
<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

06 Jul 2022

Erin Varney

Packaging Quality Control Inspector

06 Jul 2022



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