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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: 10084583
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	
R0140SVIAL	PstI	10078808	Pass	
B7203SVIAL	NEBuffer™ 3.1	10085493	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10085178	Pass	

Assay Name/Specification	Lot # 10084583
Protein Purity Assay (SDS-PAGE)	Pass
Pstl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
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.	
detectable hadicade degradation as determined by against general photosis.	
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.	
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.	
Thous at 57 5 Tolouses No. 170 of the total fauloactivity.	



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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.

Penghaa Zhang Production Scientist

<1% white colonies.

09 Nov 2020

Michael Tonello

Packaging Quality Control Inspector

09 Nov 2020