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New England Biolabs Certificate of Analysis

Product Name: Pstl
Catalog Number: R0140L
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: 10096986
Expiration Date: 01/2023
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-R0140S/L v1.0

| Pstl Component List | | | | |
|------------------------|------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R0140LVIAL | PstI | 10096987 | Pass | |
| B7203SVIAL | NEBuffer™ 3.1 | 10092685 | Pass | |
| B7024AVIAL | Gel Loading Dye, Purple (6X) | 10084972 | Pass | |

| Assay Name/Specification | Lot # 10096986 |
|--|----------------|
| 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 |
| 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 |
| Ligation and Recutting (Terminal Integrity) 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. | Pass |
| 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 | Pass |



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| Assay Name/Specification | Lot # 10096986 |
|--|----------------|
| detectable nuclease degradation as determined by agarose gel electrophoresis. | |
| Protein Purity Assay (SDS-PAGE) Pstl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection | Pass |

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

14 Jan 2021

Michael Tonello

Packaging Quality Control Inspector

14 Jan 2021



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