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New England Biolabs Certificate of Analysis

Product Name: Pstl-HF®
Catalog Number: R3140M
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: 10150022
Expiration Date: 05/2024
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol,

0.15 % Triton X-100, 200 μg/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R3140T/M v2.0

| PstI-HF® Component List | | | | |
|-------------------------|------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R3140MVIAL | PstI-HF® | 10150020 | Pass | |
| B7024AVIAL | Gel Loading Dye, Purple (6X) | 10143287 | Pass | |
| B6004SVIAL | rCutSmart™ Buffer | 10146822 | Pass | |

| Assay Name/Specification | Lot # 10150022 |
|---|----------------|
| Ligation and Recutting (Terminal Integrity) After a 100-fold over-digestion of Lambda DNA with Pstl-HF®, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated | Pass |
| fragments, >95% can be recut with PstI-HF®. | |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda DNA and a minimum of 200 units of Pstl-HF® incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | Pass |
| Protein Purity Assay (SDS-PAGE) Pstl-HF® is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection. | Pass |
| Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 200 units of Pstl-HF® incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |



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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

16 May 2022

Erin Varney

Packaging Quality Control Inspector

16 May 2022



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