

New England Biolabs Certificate of Analysis

Product Name: PstI-HF[®]
Catalog Number: R3140S
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: 10110865
Expiration Date: 03/2023
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-R3140S/L v2.0

PstI-HF [®] Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R3140SVIAL	PstI-HF [®]	10102497	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10105817	Pass
B6004SVIAL	rCutSmart [™] Buffer	10108732	Pass

Assay Name/Specification	Lot # 10110865
Protein Purity Assay (SDS-PAGE) PstI-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 [³ H] E. coli DNA and a minimum of 200 units of PstI-HF [®] 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 PstI-HF [®] , >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 PstI-HF [®] .	Pass
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 PstI-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

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.



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Production Scientist
30 Jun 2021



Michael Tonello
Packaging Quality Control Inspector
30 Jun 2021