

New England Biolabs Certificate of Analysis

Product Name: PstI-HF[®]
Catalog Number: R3140T
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: 10063325
Expiration Date: 01/2022
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
R3140TVIAL	PstI-HF [®]	10063324	Pass
B7204SVIAL	CutSmart [®] Buffer	10064410	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10059229	Pass

Assay Name/Specification	Lot # 10063325
<p>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 PstI-HF[®] incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p>	Pass
<p>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[®].</p>	Pass
<p>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.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) PstI-HF[®] is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass

This product has been tested and shown to be in compliance with all specifications.



Jianying Luo
Production Scientist
03 Jan 2020



Michael Tonello
Packaging Quality Control Inspector
19 Feb 2020