

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	PstI-HF®
Catalog Number:	R3140L
Concentration:	20,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Packaging Lot Number:	10088037
Expiration Date:	10/2022
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-R3140S/L v2.0

PstI-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3140LVIAL	PstI-HF®	10088038	Pass	
B7204SVIAL	CutSmart® Buffer	10089397	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084973	Pass	

Assay Name/Specification	Lot # 10088037
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





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

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Penghua Zhang

Pengha Zhang Production Scientist 23 Nov 2020

Josh Hersey

Packaging Quality Control Inspector 23 Nov 2020

