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New England Biolabs Certificate of Analysis

Product Name: Pvull-HF®
Catalog Number: R3151S
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° in a total reaction volume of 50 μl.

Lot Number: 1002705
Expiration Date: 10/2020
Storage Temperature: -20°C

Storage Conditions: 200 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R3151S/L v1.0

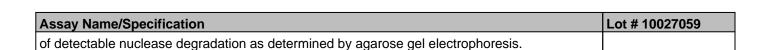
Pvull-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3151SVIAL	Pvull-HF®	10027060	Pass	
B7204SVIAL	CutSmart® Buffer	10021116	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021128	Pass	

Assay Name/Specification	Lot # 10027059
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and	Pass
a minimum of 200 Units of PvuII-HF™ incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	
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 PvuII-HF™ incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with PvuII-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 PvuII-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 100 Units of Pvull-HF™ incubated for 16 hours at 37°C results in a DNA pattern free	Pass



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

Tony Spear-Alfonso Production Scientist 27 Sep 2018 Michael Tonello Packaging Quali

Packaging Quality Control Inspector

02 Nov 2018