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New England Biolabs Certificate of Analysis

Product Name: HpyAV
Catalog Number: R0621S
Concentration: 2,000 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: 10113507 Expiration Date: 06/2023 Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl, 0.5 mM NiSO4, 0.1 mM EDTA, 50 %

Glycerol, 200 μg/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R0621S/L v3.0

HpyAV Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0621SVIAL	HpyAV	10113506	Pass	
B6004SVIAL	rCutSmart™ Buffer	10107576	Pass	

Assay Name/Specification	Lot # 10113507
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 20 units of HpyAV incubated for 4 hours at 37°C releases <0.3% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda DNA and a minimum of 6 units of HpyAV incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of Lambda DNA with HpyAV, ~50% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~50% can be recut with HpyAV.	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.



R0621S / Lot: 10113507



Pengha Zhang Production Scientist 29 Jun 2021

Michael Tonello

Packaging Quality Control Inspector

29 Jun 2021

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