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## New England Biolabs Certificate of Analysis

Product Name: HpyCH4V
Catalog Number: R0620S
Concentration: 5,000 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: 10119229
Expiration Date: 08/2023
Storage Temperature: -20°C

Storage Conditions: 50 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-R0620S/L v1.0

HpyCH4V Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0620SVIAL	HpyCH4V	10119228	Pass	
B6004SVIAL	rCutSmart™ Buffer	10115113	Pass	

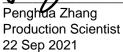
Assay Name/Specification	Lot # 10119229
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 25 Units of HpyCH4V incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with HpyCH4V, >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 HpyCH4V.	Pass
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 50 units of HpyCH4V incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass

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

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R0620S / Lot: 10119229



Michael Tonello

Packaging Quality Control Inspector

22 Sep 2021

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