

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: HpyCH4IV
Catalog Number: R0619S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of pUC19 DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10160266
Expiration Date: 08/2024
Storage Temperature: -20°C

Storage Conditions: 100 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-R0619S/L v1.0

HpyCH4IV Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0619SVIAL	HpyCH4IV	10160264	Pass	
B6004SVIAL	rCutSmart™ Buffer	10156434	Pass	

Assay Name/Specification	Lot # 10160266
Protein Purity Assay (SDS-PAGE)	Pass
HpyCH4IV is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of pUC19 DNA with HpyCH4IV, >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 HpyCH4IV.	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 30 units of HpyCH4IV incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart Buffer containing 1 µg of pUC19 DNA and a minimum of 30 units of HpyCH4IV incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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



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Penghua Zhang Production Scientist

07 Sep 2022

Erin Varney

Packaging Quality Control Inspector

07 Sep 2022