

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:	HpyCH4IV
Catalog Number:	R0619L
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of pUC19 DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Packaging Lot Number:	10070687
Expiration Date:	01/2022
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	
R0619LVIAL	HpyCH4IV	10064935	Pass	
B7204SVIAL	CutSmart® Buffer	10079734	Pass	

Assay Name/Specification	Lot # 10070687
Exonuclease Activity (Radioactivity Release) A 50 μ l reaction in CutSmart Buffer containing 1 μ g of a mixture of single and double-stranded [³ H] 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
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
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
Protein Purity Assay (SDS-PAGE) HpyCH4IV is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass

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





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

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.

Penghua Zhang Production Scientist 09 Sep 2020

Min 11.

Michael Tonello Packaging Quality Control Inspector 09 Sep 2020

