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New England Biolabs Certificate of Analysis

Product Name: HpyCH4III
Catalog Number: R0618L
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: 10064381
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-R0618S/L v2.0

HpyCH4III Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0618LVIAL	HpyCH4III	10064382	Pass	
B7204SVIAL	CutSmart® Buffer	10061302	Pass	

Assay Name/Specification	Lot # 10064381
Single Stranded DNase Activity (FAM-Labeled Oligo) A 50 µl reaction in CutSmart® Buffer containing a 20 nM solution of a fluorescent internal labeled oligonucleotide and a minimum of 25 units of HpyCH4III incubated for 16 hours at 37°C yields <5% degradation as determined by capillary electrophoresis.	Pass
DNase Activity (Labeled Oligo, 3' extension) A 50 µl reaction in CutSmart® Buffer containing a 20 nM solution of a fluorescent labeled double-stranded oligonucleotide containing a 3' extension and a minimum of 25 units of HpyCH4III incubated for 16 hours at 37°C yields <5% degradation as determined by capillary electrophoresis.	Pass
DNase Activity (Labeled Oligo, 5' extension) A 50 µl reaction in CutSmart® Buffer containing a 20 nM solution of a fluorescent labeled double-stranded oligonucleotide containing a 5' extension and a minimum of 25 units of HpyCH4III incubated for 16 hours at 37°C yields <5% degradation as determined by capillary electrophoresis.	Pass
Double Stranded DNase Activity (Labeled Oligo)	Pass



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

detectable nuclease degradation as determined by agarose gel electrophoresis.

Stephanie Cornelio Production Scientist

Stephani Onetto

16 Jan 2020

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Packaging Quality Control Inspector

04 Feb 2020



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