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New England Biolabs Certificate of Analysis

Product Name: EcoRV-HF®
Catalog Number: R3195M
Concentration: 100,000 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: 10074032 Expiration Date: 05/2022 Storage Temperature: -20°C

Storage Conditions: 200 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-R3195T/M v1.0

EcoRV-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3195MVIAL	EcoRV-HF®	10074030	Pass	
B7204SVIAL	CutSmart® Buffer	10074633	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10059231	Pass	

Assay Name/Specification	Lot # 10074032
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with EcoRV-HF™, >95% of the DNA	Pass
fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with EcoRV-HF™.	
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 100 units of EcoRV-HF™ 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 Lambda DNA and a minimum of 100 Units of EcoRV-HF™ 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) EcoRV-HF™ is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass



R3195M / Lot: 10074032

Page 1 of 2

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

religated and transformed into an E. coli strain expressing the LacZ beta fragment

Penghua Zhang Production Scientist

gene results in <1% white colonies.

22 Jun 2020

Michael Tonello

Packaging Quality Control Inspector

22 Jun 2020

