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New England Biolabs Certificate of Analysis

Product Name: EcoRV-HF®
Catalog Number: R3195T
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: 10169810
Expiration Date: 11/2024
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
R3195TVIAL	EcoRV-HF®	10169809	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10163561	Pass
B6004SVIAL	rCutSmart™ Buffer	10154051	Pass

Assay Name/Specification	Lot # 10169810
Protein Purity Assay (SDS-PAGE) EcoRV-HF™ is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass
detection.	
Non-Specific DNase Activity (16 Hour)	Pass
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.	
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™.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 20 Units of EcoRV-HF™ incubated for 4 hours at 37°C results in <20%	
conversion to the nicked form as determined by agarose gel electrophoresis.	



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

for 4 hours at 37°C releases <0.1% of the total radioactivity.

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.

YunJie Sun \
Production Scientist

18 Nov 2022

Josh Hersey

Packaging Quality Control Inspector

21 Nov 2022



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