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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: 10067956
Expiration Date: 02/2022
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
R3195TVIAL	EcoRV-HF®	10067954	Pass
B7204SVIAL	CutSmart® Buffer	10069110	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10065746	Pass

Assay Name/Specification	Lot # 10067956
Blue-White Screening (Terminal Integrity) A sample of LITMUS28i vector linearized with a 10-fold excess of EcoRV-HF™, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Endonuclease Activity (Nicking) 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.	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 100 units of EcoRV-HF™ 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 Lambda DNA with EcoRV-HF™, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated	Pass



R3195T / Lot: 10067956

Page 1 of 2

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

Penghua Zhang

Production Scientist

02 Apr 2020

Jay Minichiello

Packaging Quality Control Inspector

02 Apr 2020



R3195T / Lot: 10067956

Page 2 of 2