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New England Biolabs Certificate of Analysis

Product Name: EcoRV
Catalog Number: R0195S
Concentration: 20,000 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: 10207358
Expiration Date: 06/2025
Storage Temperature: -20°C

Storage Conditions: 50 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-R0195S/L v1.0

EcoRV Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0195SVIAL	EcoRV	10195483	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10198646	Pass	
B6003SVIAL	NEBuffer™ r3.1	10182164	Pass	

Assay Name/Specification	Lot # 10207359
Blue-White Screening (Terminal Integrity) A sample of LITMUS28i vector linearized with a 10-fold excess of EcoRV, 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 NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 20 units of EcoRV incubated for 4 hours at 37°C results in <50% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of EcoRV 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, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments,	Pass



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

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YunJie Sun \
Production Scientist

07 Jun 2023

Josh Hersey

Packaging Quality Control Inspector

27 Sep 2023



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