

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## 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: 10121026
Expiration Date: 08/2023
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0195SVIAL	EcoRV	10118279	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10114156	Pass	
B6003SVIAL	NEBuffer™ r3.1	10117885	Pass	

Assay Name/Specification	Lot # 10121026
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 20	Pass
units of EcoRV 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, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with EcoRV.	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
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%	Pass



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

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Penghua Zhang Production Scientist 13 Sep 2021

detection.

Michael Tonello

Packaging Quality Control Inspector

13 Sep 2021



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