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## New England Biolabs Certificate of Analysis

Product Name: EcoRV
Catalog Number: R0195T
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: 10118278
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-R0195T/M v1.0

EcoRV Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0195TVIAL	EcoRV	10118276	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10108733	Pass	
B6003SVIAL	NEBuffer™ r3.1	10110766	Pass	

Assay Name/Specification	Lot # 10118278
Protein Purity Assay (SDS-PAGE)  EcoRV is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass
detection.	
Exonuclease Activity (Radioactivity Release)	Pass
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.	
Endonuclease Activity (Nicking)	Pass
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.	
Blue-White Screening (Terminal Integrity)	Pass
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.	



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

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.

Penghaa Zhang Production Scientist 23 Aug 2021

>95% can be recut with EcoRV.

Michael Tonello

Packaging Quality Control Inspector

23 Aug 2021



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