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## New England Biolabs Certificate of Analysis

Product Name: EcoRI
Catalog Number: R0101S
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: 10186608
Expiration Date: 12/2024
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM KPO4 (pH 7.5), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.15% Triton X-100, 200 µg/ml BSA

Specification Version: PS-R0101S/L v3.0

EcoRI Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0101SVIAL	EcoRI	10173398	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10182168	Pass	
B0101SVIAL	NEBuffer™ EcoRI/SspI	10156284	Pass	

Assay Name/Specification	Lot # 10186608
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of EcoRI, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in 1X NEBuffer EcoRl/Sspl containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 200 units of EcoRl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity)  After a 20-fold over-digestion of Lambda DNA with EcoRI, >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 EcoRI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in 1X NEBuffer EcoRl/Sspl containing 1 μg of Lambda DNA and a minimum of 100 units of EcoRl incubated for 16 hours at 37°C results in a DNA	Pass



R0101S / Lot: 10186608 Page 1 of 2 This product has been tested and shown to be in compliance with all specifications.

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YunJie Suń

Production Scientist

04 Jan 2023

Michael Tonello

Packaging Quality Control Inspector

23 May 2023



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