

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	EcoRI
Catalog Number:	R0101L
Concentration:	20,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Lot Number:	10052727
Expiration Date:	06/2021
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 v2.0

EcoRI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0101LVIAL	EcoRI	10046967	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10043910	Pass	
B0101SVIAL	NEBuffer™ EcoRI	0091905	Pass	

Assay Name/Specification	Lot # 10052727
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 EcoRI Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 200 units of EcoRI 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 EcoRI Buffer containing 1 µg of Lambda DNA and a minimum of 100 Units of EcoRI incubated for 16 hours at 37°C results in a DNA pattern free of	Pass





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Assay Name/Specification	Lot # 10052727
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Protein Purity Assay (SDS-PAGE) EcoRI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass

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

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Stephanie Cornelio Production Scientist 27 Jun 2019

Michae 7110

Michael Tonello Packaging Quality Control Inspector 15 Aug 2019

