

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:	R0101T
Concentration:	100,000 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.
Packaging Lot Number:	10087360
Expiration Date:	10/2022
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-R0101T/M v2.0

EcoRI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0101TVIAL	EcoRI	10087361	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10085178	Pass	
B0101SVIAL	NEBuffer™ EcoRI/SspI	10087353	Pass	

Assay Name/Specification	Lot # 10087360
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 # 10087360
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Protein Purity Assay (SDS-PAGE)	Pass
EcoRI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	
detection.	

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.

Penghua Zhang Production Scientist 11 Nov 2020

Much

Michael Tonello Packaging Quality Control Inspector 11 Nov 2020

