NEW ENGLAND BioLabs Inc.
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240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
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www.neb.com
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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 µg of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 µl.*
Packaging Lot Number:	*10206909*
Expiration Date:	*09/2025*
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

NEB Part Number	Component Description	Lot Number	Individual QC Result
R0101LVIAL	EcoRI	10206339	**Pass**
B7024AVIAL	Gel Loading Dye, Purple (6X)	10198646	**Pass**
B0101SVIAL	NEBuffer™ EcoRI/SspI	10202104	**Pass**

Assay Name/Specification	Lot # 10206909
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 EcoRI/SspI 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 16ºC. Of these ligated fragments, >95% can be recut with EcoRI.	**Pass**
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in 1X NEBuffer EcoRI/SspI containing 1 µg of Lambda DNA and a minimum of 100 units of EcoRI incubated for 16 hours at 37ºC results in a DNA	**Pass**

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pattern free of 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.

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.

YunJie Sun
Production Scientist
06 Sep 2023

Michael Tonello
Packaging Quality Control Inspector
12 Sep 2023