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New England Biolabs Certificate of Analysis

Product Name:	NEBuffer™ EcoRI
Catalog #:	B0101S
Concentration:	10X Concentrate
Lot #:	0081505
Assay Date:	05/2015
Expiration Date:	05/2018
Storage Temp:	-20°C
Composition (1X):	50 mM NaCl, 100 mM Tris-HCl, 10 mM MgCl2, 0.025% Triton®X-100, (pH 7.5 @ 25°C)
Specification Version:	PS-B0101S v1.0
Effective Date:	20 Dec 2017

Assay Name/Specification (minimum release criteria)	Lot #0081505
Endonuclease Activity (Nicking, Buffer) - A 50 μ l reaction in 1X NEBuffer TM EcoRI containing 1 μ g of supercoiled PhiX174 DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Functional Testing (Restriction Digest, Buffer) - A 50 μ l reaction in 1X NEBuffer TM EcoRI containing 1 μ g of Lambda DNA and 1 unit of EcoRI incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 hour, Buffer) - A 50 μ l reaction in 1X NEBuffer TM EcoRI containing 1 μ g of PhiX174-HaeIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
pH (buffers/solutions) - The pH of 10X NEBuffer™ EcoRI is between pH 7.4 and 7.6 at 25°C.	Pass
RNase Activity (Buffer) - A 10 μ l reaction in 1X NEBuffer TM EcoRI containing 40 ng of a 300 base single- stranded RNA is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by fluorescent detection.	Pass

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Authorized by Derek Robinson 20 Dec 2017



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Inspected by Casey Madinger 14 May 2015