

New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ EcoRI
Catalog #: B0101S
Concentration: 10X Concentrate
Lot #: 0091701
Assay Date: 01/2017
Expiration Date: 01/2020
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 #0091701
Endonuclease Activity (Nicking, Buffer) - A 50 µl reaction in 1X NEBuffer™ EcoRI containing 1 µg 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 µl reaction in 1X NEBuffer™ EcoRI containing 1 µg 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 µl reaction in 1X NEBuffer™ EcoRI containing 1 µg 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 µl reaction in 1X NEBuffer™ 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



Authorized by
Derek Robinson
20 Dec 2017



Inspected by
Stephanie Cornelio
23 Jan 2017

