

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:	Nuclease-free Water
Catalog #:	B1500 S/L
<i>Lot #</i> :	0011711
Assay Date:	11/2017
Expiration Date:	11/2019
Storage Temp:	20 to 25°C
Specification Version:	PS-B1500 S/L v1.0
Effective Date:	04 Jan 2017

Assay Name/Specification (minimum release criteria)	Lot #0011711
Endonuclease Activity (Nicking, Water) - A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 RF I DNA with Nuclease-free Water incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Endotoxin Testing (Endosafe®) - Each test channel of the cartridge is loaded with 25 μ l of Nuclease-free Water, then placed into the Endosafe MCS reader for analysis resulting in a measurement of <0.01 EU/ml.	Pass
Non-Specific DNase Activity (16 Hour, Water) - A 50 µl reaction in CutSmart® Buffer containing 1 µg of PhiX174-HaeIII DNA with Nuclease-free Water incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
qPCR DNA Contamination (Prokaryotic Genomic, Water) - Nuclease-free Water is used to make a qPCR master mix and screened across a 96 well plate for the presence of prokaryotic genomic DNA using 40 cycles of SYBR® Green qPCR with universal primers for the 16S rRNA locus. Melt curve analysis results in < 5% positive samples above background.	Pass
RNase Activity (Extended Digestion, Water) - A 10 µl reaction in 1X NEBuffer 4 containing 40 ng of RNA transcript with Nuclease-free Water is incubated at 37°C. After incubation for 16 hours, no detectable degradation of the RNA is observed as determined by gel electrophoresis using fluorescent detection.	Pass
UV-Visable Scan - A UV-Visible scan using a spectrophotometer that covers the range of 200nm to 800nm will have no detectable peaks above background.	Pass

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Authorized by Derek Robinson 04 Jan 2017



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Inspected by Tony Spear-Alfonso 01 Nov 2017