

*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:	Nuclease-free Water	
Catalog Number:	B1500S	
Lot Number:	10048839	
Expiration Date:	04/2021	
Storage Temperature:	25°C	
Specification Version:	PS-B1500S/L v2.0	

Nuclease-free Water Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B1500SVIAL	Nuclease-free Water	10041161	Pass	

Assay Name/Specification	Lot # 10048839
<b>Endonuclease Activity (Nicking, Water)</b> 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
<b>Endotoxin Testing (Endosafe®)</b> Each test channel of the cartridge is loaded with 25 µl of Nuclease-free Water, then placed into the Endosafe MCS reader for analysis resulting in a measurement of <0.01 EU/ml.	Pass
<b>Non-Specific DNase Activity (16 Hour, Water)</b> 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
<b>RNase Activity (Extended Digestion, Water)</b> 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
<b>UV-Visable Scan</b> A UV-Visible scan using a spectrophotometer that covers the range of 200nm to 800nm will have no detectable peaks above background.	Pass
qPCR DNA Contamination (E. coli Genomic, Water)	Pass





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Assay Name/Specification	Lot # 10048839
Nuclease-free Water is used to make a qPCR master mix and screened across a 96 well plate for the presence of E. coli genomic DNA using 40 cycles of SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Melt curve analysis results in < 5% positive samples above background.	

This product has been tested and shown to be in compliance with all specifications.

Michael Dalton

Michael Dalton Production Scientist 26 Jun 2019

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Nick Privitera Packaging Quality Control Inspector 26 Jun 2019

