

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: 10030045
Expiration Date: 11/2020
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	1001905	Pass	

Assay Name/Specification	Lot # 10030045
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 µl 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
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
qPCR DNA Contamination (E. coli Genomic, Water)	Pass



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Assay Name/Specification	Lot # 10030045
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
Production Scientist

16 Nov 2018

Corey Rabeau

Packaging Quality Control Inspector

16 Nov 2018

