

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:        | B1500L              |  |
| Packaging Lot Number:  | 10131872            |  |
| Expiration Date:       | 09/2023             |  |
| 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   | 10109001   | Pass                 |  |

| Assay Name/Specification  | Lot # 10131872 |
|---|----------------|
| <b>Non-Specific DNase Activity (16 Hour, Water)</b><br>A 50 µl reaction in CutSmart® Buffer containing 1 µg of PhiX174-HaeIII DNA with<br>Nuclease-free Water incubated for 16 hours at 37°C results in a DNA pattern free of<br>detectable nuclease degradation as determined by agarose gel electrophoresis.                      | Pass           |
| <b>Endonuclease Activity (Nicking, Water)</b><br>A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 RF I DNA<br>with Nuclease-free Water incubated for 4 hours at 37°C results in <10% conversion to<br>the nicked form as determined by agarose gel electrophoresis.                                      | Pass           |
| <b>Endotoxin Testing (Endosafe®)</b><br>Each test channel of the cartridge is loaded with 25 µl of Nuclease-free Water, then<br>placed into the Endosafe MCS reader for analysis resulting in a measurement of <0.01<br>EU/ml.  | Pass           |
| <b>RNase Activity (Extended Digestion, Water)</b><br>A 10 µl reaction in 1X NEBuffer 4 containing 40 ng of RNA transcript with<br>Nuclease-free Water is incubated at 37°C. After incubation for 16 hours, no<br>detectable degradation of the RNA is observed as determined by gel electrophoresis<br>using fluorescent detection. | Pass           |
| <b>UV-Visable Scan</b><br>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 # 10131872 |
|--|----------------|
| 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Michael Dalton Production Scientist 07 Dec 2021

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Nick Privitera Packaging Quality Control Inspector 07 Dec 2021

