

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: Luna® Probe One-Step RT-qPCR 4X Mix with UDG

Catalog Number: M3019L

Concentration: 4 X Concentrate

Packaging Lot Number: 10221832 Expiration Date: 02/2025 Storage Temperature: -20°C

Specification Version: PS-M3019S/L/X v2.0

Composition (1X): Proprietary

| Luna® Probe One-Step RT-qPCR 4X Mix with UDG Component List | | | | |
|---|--|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| M3019LVIAL | Luna® Probe One-Step RT-qPCR 4X Mix with UDG | 10190686 | Pass | |
| B1502AVIAL | Nuclease-free Water | 10185496 | Pass | |

| Assay Name/Specification | Lot # 10221832 |
|--|----------------|
| Functional Testing (One-Step RT-qPCR) Luna® Probe One-Step RT-qPCR 4X Mix with UDG is functionally tested in One-Step RT-qPCR with human RNA template, resulting in a standard curve with a calculated qPCR efficiency of 90-110%, and a dynamic range of 8 orders of magnitude. | Pass |
| Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X Luna® Probe One-Step RT-qPCR Mix with UDG containing 1 µg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII 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 |
| RNase Activity Assay (4 Hour Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Luna® Probe One-Step RT-qPCR 4X Mix with UDG is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection. | Pass |
| qPCR DNA Contamination (E. coli Genomic) A minimum of 1 μl of Luna® Probe One-Step RT-qPCR 4X Mix with UDG is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for | Pass |



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|---|----------------|
| the E. coli 16S rRNA locus. Results are quantified using a standard curve generated | |
| from purified E. coli genomic DNA. The measured level of E. coli genomic DNA | |
| contamination is ≤ 1 E. coli genome. | |

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.

_ea Antonpoulos

Production Scientist

19 May 2023

Michael Tonello

Packaging Quality Control Inspector

20 Dec 2023

