

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: 10157020
Expiration Date: 04/2023
Storage Temperature: -20°C
Specification Version: PS-M3019S/L/X v1.0
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 | 10143656 | Pass |
| B1502AVIAL | Nuclease-free Water | 10151182 | Pass |

| Assay Name/Specification | Lot # 10157020 |
|--|----------------|
| 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 |
| 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 |
| 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.



Christie Vazquez
Production Scientist
15 Aug 2022



Michael Tonello
Packaging Quality Control Inspector
15 Aug 2022