

New England Biolabs Certificate of Analysis

Product Name: Luna® Probe One-Step RT-qPCR 4X Mix with UDG
Catalog Number: M3019E
Concentration: 4 X Concentrate
Packaging Lot Number: 10131850
Expiration Date: 11/2022
Storage Temperature: -20°C
Specification Version: PS-M3019E 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 |
| M3019EVIAL | Luna® Probe One-Step RT-qPCR 4X Mix with UDG | 10128906 | Pass |
| B1502EVIAL | Nuclease-free Water | 10098769 | Pass |

| Assay Name/Specification | Lot # 10131850 |
|---|----------------|
| 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 |
| 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 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. | Pass |
| RNase Activity Assay (4 Hour Digestion) | Pass |

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|--|----------------|
| 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. | |

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
07 Feb 2022



Michael Tonello
Packaging Quality Control Inspector
07 Feb 2022