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## 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: 10182699
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M3019LVIAL	Luna® Probe One-Step RT-qPCR 4X Mix with UDG	10179868	Pass	
B1502AVIAL	Nuclease-free Water	10170341	Pass	

Assay Name/Specification	Lot # 10182699
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
<b>qPCR DNA Contamination (E. coli Genomic)</b> 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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This product has been tested and shown to be in compliance with all specifications.

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contamination is ≤ 1 E. coli genome.

03 Mar 2023

Michael Tonello

Packaging Quality Control Inspector

24 Apr 2023

