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New England Biolabs Certificate of Analysis

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

Catalog Number: M3019X

Concentration: 4 X Concentrate

Packaging Lot Number: 10123082
Expiration Date: 07/2022
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	10115015	Pass	
B1502AVIAL	Nuclease-free Water	10118043	Pass	

Assay Name/Specification	Lot # 10123082
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
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
Functional Testing (One-Step RT-qPCR)	Pass



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This product has been tested and shown to be in compliance with all specifications.

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Christie Vazquez Production Scientist 04 Oct 2021 Josh Hersey

Packaging Quality Control Inspector

04 Oct 2021

