

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: M3019X

Concentration: 4 X Concentrate

Packaging Lot Number: 10145816
Expiration Date: 01/2023
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	10135892	Pass	
B1502AVIAL	Nuclease-free Water	10137924	Pass	

Assay Name/Specification	Lot # 10145816
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) 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
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	Pass



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Assay Name/Specification	Lot # 10145816
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.	

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 24 Mar 2022 Michael Tonello

Packaging Quality Control Inspector

24 Mar 2022