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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:	10118241
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 # 10118241
RNase Activity Assay (4 Hour Digestion) A 10 μ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ l 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 μ l 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 \leq 1 E. coli genome.	Pass
Functional Testing (One-Step RT-qPCR)	Pass





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Assay Name/Specification	Lot # 10118241
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.	

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.

poistie Vayouez

Christie Vazquez Production Scientist 10 Sep 2021

Josh Hersey

Packaging Quality Control Inspector 10 Sep 2021

