

be INSPIRED drive DISCOVERY stay GENUINE

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:	M3019E
Concentration:	4 X Concentrate
Packaging Lot Number:	10140705
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	10138583	Pass	

Assay Name/Specification	Lot # 10140705
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 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
RNase Activity Assay (4 Hour Digestion)	Pass





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Assay Name/Specification	Lot # 10140705
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.	

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.

vistie Vazquez

Christie Vazquez Production Scientist 09 Feb 2022

Michae

Michael Tonello Packaging Quality Control Inspector 09 Feb 2022

