

New England Biolabs Certificate of Analysis

Product Name: *LyoPrime Luna® Probe One-Step RT-qPCR Mix with UDG*
 Catalog Number: *L4001S*
 Packaging Lot Number: *10219111*
 Expiration Date: *10/2025*
 Storage Temperature: *15°C to 25°C*
 Specification Version: *PS-L4001S v1.0*

Assay Name/Specification	Lot # 10219111
<p>Functional Testing (One-Step RT-qPCR) LyoPrime Luna™ Probe One-Step RT-qPCR Mix 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.</p>	Pass
<p>Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X LyoPrime 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.</p>	Pass
<p>RNase Activity (Extended 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 2X LyoPrime Luna™ Probe One-Step RT-qPCR 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.</p>	Pass
<p>qPCR DNA Contamination (E. coli Genomic) A minimum of 1 µl of 2X LyoPrime Luna™ Probe One-Step RT-qPCR 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.</p>	Pass

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.

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20 Dec 2023

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