

## New England Biolabs Certificate of Analysis

**Product Name:** *LyoPrime Luna® Probe One-Step RT-qPCR Mix with UDG*  
**Catalog Number:** *L4001P*  
**Packaging Lot Number:** *10202735*  
**Expiration Date:** *08/2025*  
**Storage Temperature:** *15°C to 25°C*  
**Specification Version:** *PS-L4001P v1.0*

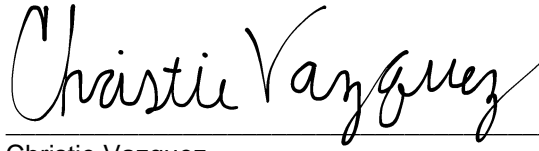
Assay Name/Specification	Lot # 10202735
<p><b>Functional Testing (One-Step RT-qPCR)</b>  LyoPrime Luna® Probe One-Step RT-qPCR Mix is functionally tested in One-Step RT-qPCR with human RNA template, resulting in a standard curve with a calculated qPCR efficiency of 90-110%, and a dynamic range of 8 orders of magnitude.</p>	<b>Pass</b>
<p><b>Non-Specific DNase Activity (16 hour, Buffer)</b>  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>	<b>Pass</b>
<p><b>RNase Activity (Extended Digestion)</b>  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, &gt;90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	<b>Pass</b>
<p><b>qPCR DNA Contamination (E. coli Genomic)</b>  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>	<b>Pass</b>

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

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01 Nov 2023



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