

## New England Biolabs Certificate of Analysis

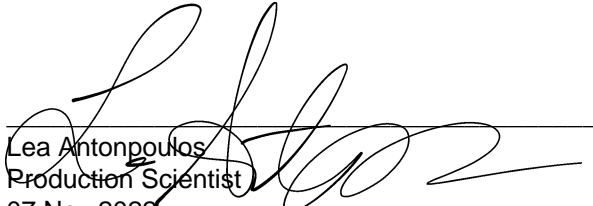
**Product Name:** Luna® Universal Probe qPCR Master Mix  
**Catalog Number:** M3004L  
**Concentration:** 2 X Concentrate  
**Packaging Lot Number:** 10175345  
**Expiration Date:** 10/2024  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M3004S/L/G/X/E v2.0  
**Composition (1X):** Proprietary

| Luna® Universal Probe qPCR Master Mix Component List |                                       |            |                      |
|--|---------------------------------------|------------|----------------------|
| NEB Part Number                                      | Component Description                 | Lot Number | Individual QC Result |
| M3004SVIAL   | Luna® Universal Probe qPCR Master Mix | 10168027   | Pass                 |

| Assay Name/Specification   | Lot # 10175345 |
|--|----------------|
| <p><b>Functional Testing (qPCR)</b><br/>Luna® Universal Probe qPCR Master Mix is functionally tested in qPCR with human cDNA template, resulting in a standard curve with a calculated qPCR efficiency of 90-110%, and a dynamic range of 5 orders of magnitude.</p>   | Pass           |
| <p><b>qPCR DNA Contamination (E. coli Genomic)</b><br/>A minimum of 1 µl of Luna® Universal Probe qPCR Master Mix 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           |
| <p><b>RNase Activity Assay (4 Hour Digestion)</b><br/>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® Universal Probe qPCR Master Mix 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>   | Pass           |
| <p><b>Non-Specific DNase Activity (16 hour, Master Mix)</b><br/>A 50 µl reaction in 1X Luna® Universal Probe qPCR Master Mix 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           |

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

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07 Nov 2022

  
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01 Feb 2023