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## New England Biolabs Certificate of Analysis

Product Name: Luna® Universal Probe qPCR Master Mix

Catalog Number: M3004G

Concentration: 2 X Concentrate

Packaging Lot Number: 10109265
Expiration Date: 02/2023
Storage Temperature: -20°C

Specification Version: PS-M3004G v2.0

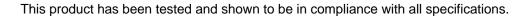
Composition (1X): Proprietary

Luna® Universal Probe qPCR Master Mix Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M3004SVIAL	Luna® Universal Probe qPCR Master Mix	10099150	Pass	

Assay Name/Specification	Lot # 10109265
RNase Activity Assay (4 Hour 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 Luna® Universal Probe qPCR Master Mix 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
<b>qPCR DNA Contamination (E. coli Genomic)</b> 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.	Pass
Functional Testing (qPCR) 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.	Pass
Non-Specific DNase Activity (16 hour, Master Mix) 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.	Pass



M3004G / Lot: 10109265 Page 1 of 2



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Christie Vazquez Production Scientist

15 Jul 2021

Michael Tonello

Packaging Quality Control Inspector

15 Jul 2021