

New England Biolabs Certificate of Analysis

Product Name: Luna[®] Universal qPCR Master Mix
Catalog #: M3003S/L/G/X/E
Concentration: 2X Concentrate
Lot #: 0101803
Assay Date: 03/2018
Expiration Date: 3/2020
Storage Temp: -20°C
Composition (1X): Proprietary
Specification Version: PS-M3003S/L/G/X/E v1.0
Effective Date: 14 Feb 2018

Assay Name/Specification (minimum release criteria)	Lot #0101803
Functional Testing (qPCR) - Luna [®] Universal 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 qPCR Master Mix containing 1 µg of T3 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 µl of Luna [®] Universal qPCR Master Mix is screened for the presence of <i>E. coli</i> genomic DNA using SYBR [®] Green qPCR with primers specific for the <i>E. coli</i> 16S rRNA locus. Results are quantified using a standard curve generated from purified <i>E. coli</i> genomic DNA. The measured level of <i>E. coli</i> genomic DNA contamination is ≤ 1 <i>E. coli</i> genome.	Pass
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 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



Authorized by
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14 Feb 2018



Inspected by
Tony Spear-Alfonso
20 Mar 2018

