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New England Biolabs Certificate of Analysis

Product Name:	Luna® Universal qPCR Master Mix
Catalog #:	M3003S/L/G
Concentration:	2X Concentrate
<i>Lot</i> #:	0061701
Assay Date:	01/2017
Expiration Date:	1/2019
Storage Temp:	-20°C
Composition (1X):	Proprietary
Specification Version:	PS-M3003S/L/G v1.0
Effective Date:	21 Dec 2016

Assay Name/Specification (minimum release criteria)	Lot #0061701
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 μ l reaction in 1X Luna® Universal qPCR Master Mix containing 1 μ g 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 (<i>E. coli</i> Genomic) - A minimum of 1 μ l 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 μ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ l 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 Melanie Fortier 21 Dec 2016



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Inspected by Tony Spear-Alfonso 09 Jan 2017