

New England Biolabs Certificate of Analysis

Product Name: Luna[®] Universal Probe qPCR Master Mix
Catalog #: M3004S/L/G
Concentration: 2X Concentrate
Lot #: 0031701
Assay Date: 01/2017
Expiration Date: 1/2019
Storage Temp: -20°C
Composition (1X): Proprietary
Specification Version: PS-M3004S/L/G v1.0
Effective Date: 21 Dec 2016

Assay Name/Specification (minimum release criteria)	Lot #0031701
<p>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.</p>	Pass
<p>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 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
<p>qPCR DNA Contamination (E. coli Genomic) - A minimum of 1 µl of Luna[®] Universal Probe 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.</p>	Pass
<p>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.</p>	Pass



Authorized by
Melanie Fortier
21 Dec 2016



Inspected by
Tony Spear-Alfonso
09 Jan 2017

