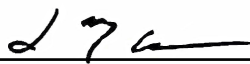


New England Biolabs Certificate of Analysis

Product Name: WarmStart[®] Colorimetric LAMP 2X Master Mix (DNA & RNA)
Catalog #: M1800S/L
Concentration: 2X Concentrate
Lot #: 0111712
Assay Date: 12/2017
Expiration Date: 12/2018
Storage Temp: -20°C
Composition (1X): Proprietary
Specification Version: PS-M1800S/L v1.0
Effective Date: 16 Nov 2017

Assay Name/Specification (minimum release criteria)	Lot #0111712
Functional Testing (LAMP, Master Mix) - A 25 µl reaction with 1X WarmStart [®] Colorimetric LAMP Master Mix (DNA & RNA) in the presence of 1X LAMP Primers containing 10 ng genomic DNA and 1X LAMP fluorescent dye results in a threshold time of ≤ 15 minutes as determined by fluorescent detection.	Pass
Functional Testing (RT-LAMP, Master Mix) - A 25 µl reaction with 1X WarmStart [®] Colorimetric LAMP Master Mix (DNA & RNA) in the presence of 1X LAMP Primers containing 10 ng of genomic RNA and 1X LAMP fluorescent dye results in a threshold time of ≤ 15 minutes as determined by fluorescent detection.	Pass
Non-Specific DNase Activity (16 hour, Buffer) - A 50 µl reaction in 1X WarmStart [®] Colorimetric LAMP Master Mix (DNA & RNA) 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 WarmStart [®] Colorimetric LAMP Master Mix (DNA & RNA) 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 (Extended 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 WarmStart [®] Colorimetric LAMP 2X Master Mix (DNA & RNA) 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
Lynne Apone
16 Nov 2017



Inspected by
Tony Spear-Alfonso
12 Dec 2017

