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## New England Biolabs Certificate of Analysis

Product Name: WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA)

Catalog Number: M1800S

Concentration: 2 X Concentrate

Lot Number: 10053932 Expiration Date: 06/2020 Storage Temperature: -20°C

Specification Version: PS-M1800S/L v2.0

Composition (1X): Proprietary

WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA) Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M1800SVIAL	WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA)	10047041	Pass	

Assay Name/Specification	Lot # 10053932
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 ≤ 20 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
<b>qPCR DNA Contamination (E. coli Genomic)</b> A minimum of 1 μl of WarmStart® Colorimetric LAMP Master Mix (DNA & RNA) 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
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	Pass



M1800S / Lot: 10053932

Page 1 of 2

Assay Name/Specification	Lot # 10053932
intact as determined by gel electrophoresis using fluorescent detection.	
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 ≤ 20 minutes as determined by fluorescent detection.	Pass

This product has been tested and shown to be in compliance with all specifications.

David Guo

Production Scientist

27 Jun 2019

Michael Tonello

Packaging Quality Control Inspector

28 Aug 2019



M1800S / Lot: 10053932

Page 2 of 2