

New England Biolabs Certificate of Analysis

Product Name: WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA)
Catalog Number: M1800L
Concentration: 2 X Concentrate
Packaging Lot Number: 10068562
Expiration Date: 02/2021
Storage Temperature: -20°C
Specification Version: PS-M1800S/L v3.0
Composition (1X): Proprietary

| WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA) Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M1800SVIAL | WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA) | 10065484 | Pass |

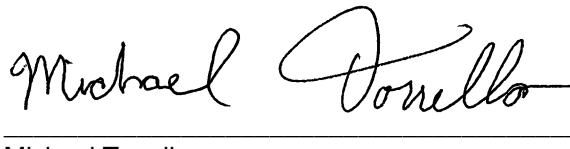
| Assay Name/Specification | Lot # 10068562 |
|--|----------------|
| qPCR DNA Contamination (E. coli Genomic) A minimum of 1 µl of WarmStart® Colorimetric LAMP Master Mix (DNA & RNA) is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S 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 intact as determined by gel electrophoresis using fluorescent detection. | Pass |
| 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 |
| 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 |

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|--|----------------|
| 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 or T7 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 |

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



Christie Vazquez
Production Scientist
24 Feb 2020



Michael Tonello
Packaging Quality Control Inspector
24 Feb 2020