

## New England Biolabs Certificate of Analysis

**Product Name:** WarmStart® Colorimetric LAMP 2X Master Mix with UDG  
**Catalog Number:** M1804L  
**Concentration:** 2 X Concentrate  
**Packaging Lot Number:** 10091529  
**Expiration Date:** 09/2021  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M1804S/L v1.0  
**Composition (1X):** Proprietary

| WarmStart® Colorimetric LAMP 2X Master Mix with UDG Component List |   |            |                      |
|--|---|------------|----------------------|
| NEB Part Number  | Component Description                               | Lot Number | Individual QC Result |
| M1804SVIAL   | WarmStart® Colorimetric LAMP 2X Master Mix with UDG | 10094081   | Pass                 |

| Assay Name/Specification  | Lot # 10091529 |
|---|----------------|
| <b>Functional Testing (LAMP, Master Mix)</b><br>A 25 µl reaction with 1X WarmStart® Colorimetric LAMP Master Mix with UDG 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           |
| <b>Non-Specific DNase Activity (16 hour, Master Mix)</b><br>A 50 µl reaction in 1X WarmStart® Colorimetric LAMP Master Mix with UDG 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           |
| <b>RNase Activity (Extended Digestion)</b><br>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 with UDG 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           |
| <b>Functional Testing (RT-LAMP, Master Mix)</b><br>A 25 µl reaction with 1X WarmStart® Colorimetric LAMP Master Mix with UDG 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  | Pass           |

| Assay Name/Specification   | Lot # 10091529     |
|--|--------------------|
| <p>detection.</p> <p><b>qPCR DNA Contamination (E. coli Genomic)</b><br/>A minimum of 1 µl of WarmStart® Colorimetric LAMP 2X Master Mix with UDG 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.</p> | <p><b>Pass</b></p> |

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

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15 Dec 2020



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15 Dec 2020