

## 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:** 10064065  
**Expiration Date:** 11/2020  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M1800S/L v2.0  
**Composition (1X):** Proprietary

WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M1800SVIAL	WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA)	10058038	Pass

Assay Name/Specification	Lot # 10064065
<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
<b>RNase Activity (Extended Digestion)</b> 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
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> 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>Functional Testing (LAMP, Master Mix)</b> 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

Assay Name/Specification	Lot # 10064065
<p><b>Functional Testing (RT-LAMP, Master Mix)</b> A 25 µl reaction with 1X WarmStart<sup>®</sup> Colorimetric LAMP Master Mix (DNA &amp; 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.</p>	<p><b>Pass</b></p>

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



Christie Vazquez  
Production Scientist  
16 Dec 2019



Michael Tonello  
Packaging Quality Control Inspector  
07 Feb 2020