

## New England Biolabs Certificate of Analysis

**Product Name:** WarmStart<sup>®</sup> Colorimetric LAMP 2X Master Mix (DNA & RNA)  
**Catalog Number:** M1800S  
**Concentration:** 2 X Concentrate  
**Packaging Lot Number:** 10037165  
**Expiration Date:** 02/2020  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M1800S/L v1.0  
**Composition (1X):** Proprietary

WarmStart <sup>®</sup> Colorimetric LAMP 2X Master Mix (DNA & RNA) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M1800SVIAL	WarmStart <sup>®</sup> Colorimetric LAMP 2X Master Mix (DNA & RNA)	10032996	Pass

Assay Name/Specification	Lot # 10037165
<p><b>Functional Testing (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 genomic DNA and 1X LAMP fluorescent dye results in a threshold time of ≤ 15 minutes as determined by fluorescent detection.</p>	Pass
<p><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<sup>®</sup> Colorimetric LAMP 2X Master Mix (DNA &amp; RNA) is incubated at 37°C. After incubation for 4 hours, &gt;90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	Pass
<p><b>qPCR DNA Contamination (E. coli Genomic)</b>            A minimum of 1 µl of WarmStart<sup>®</sup> Colorimetric LAMP Master Mix (DNA &amp; RNA) is screened for the presence of E. coli genomic DNA using SYBR<sup>®</sup> 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>	Pass
<p><b>Non-Specific DNase Activity (16 hour, Buffer)</b>            A 50 µl reaction in 1X WarmStart<sup>®</sup> Colorimetric LAMP Master Mix (DNA &amp; 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.</p>	Pass

Assay Name/Specification	Lot # 10037165
<p><b>Functional Testing (RT-LAMP, Master Mix)</b> A 25 µl reaction with 1X WarmStart® 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 ≤ 15 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



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04 Mar 2019



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04 Mar 2019