

## New England Biolabs Certificate of Analysis

**Product Name:** WarmStart<sup>®</sup> Multi-Purpose LAMP/RT-LAMP 2X Master Mix (with UDG)  
**Catalog Number:** M1708S  
**Concentration:** 2 X Concentrate  
**Packaging Lot Number:** 10140429  
**Expiration Date:** 01/2024  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M1708S/L v2.0  
**Composition (1X):** Proprietary

WarmStart <sup>®</sup> Multi-Purpose LAMP/RT-LAMP 2X Master Mix (with UDG) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M1708SVIAL	WarmStart <sup>®</sup> Multi-Purpose LAMP/RT-LAMP 2X Master Mix (with UDG)	10135640	Pass

Assay Name/Specification	Lot # 10140429
<b>Non-Specific DNase Activity (16 hour, Master Mix)</b> A 50 µl reaction in 1X WarmStart <sup>®</sup> Multi-Purpose LAMP/RT-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>Functional Testing (RT-LAMP, Master Mix)</b> A 25 µl reaction with 1X WarmStart <sup>®</sup> Multi-Purpose LAMP/RT-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 detection.	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 <sup>®</sup> Multi-Purpose LAMP/RT-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 (LAMP, Master Mix)</b> A 25 µl reaction with 1X WarmStart <sup>®</sup> Multi-Purpose LAMP/RT-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	Pass

Assay Name/Specification	Lot # 10140429
<p>fluorescent detection.</p> <p><b>qPCR DNA Contamination (E. coli Genomic)</b> A minimum of 1 µl of WarmStart® Multi-Purpose LAMP/RT-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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04 Feb 2022



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