

## New England Biolabs Certificate of Analysis

**Product Name:** WarmStart® Multi-Purpose LAMP/RT-LAMP 2X Master Mix (with UDG)  
**Catalog Number:** M1708L  
**Concentration:** 2 X Concentrate  
**Packaging Lot Number:** 10165616  
**Expiration Date:** 09/2024  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M1708S/L v2.0  
**Composition (1X):** Proprietary

WarmStart® Multi-Purpose LAMP/RT-LAMP 2X Master Mix (with UDG) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M1708SVIAL	WarmStart® Multi-Purpose LAMP/RT-LAMP 2X Master Mix (with UDG)	10164350	Pass

Assay Name/Specification	Lot # 10165616
<b>Functional Testing (RT-LAMP, Master Mix)</b> A 25 µl reaction with 1X WarmStart® 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.	<b>Pass</b>
<b>Non-Specific DNase Activity (16 hour, Master Mix)</b> A 50 µl reaction in 1X WarmStart® 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.	<b>Pass</b>
<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® 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.	<b>Pass</b>
<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	<b>Pass</b>

Assay Name/Specification	Lot # 10165616
<p>standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is <math>\leq 1</math> E. coli genome.</p> <p><b>Functional Testing (LAMP, Master Mix)</b> A 25 <math>\mu</math>l 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 <math>\leq 20</math> 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.

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03 Oct 2022



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31 Oct 2022