

New England Biolabs Certificate of Analysis

Product Name: WarmStart[®] Multi-Purpose LAMP/RT-LAMP 2X Master Mix (with UDG)
Catalog Number: M1708S
Concentration: 2 X Concentrate
Packaging Lot Number: 10140940
Expiration Date: 01/2024
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)	10135640	Pass

Assay Name/Specification	Lot # 10140940
RNase Activity (Extended Digestion) 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.	Pass
qPCR DNA Contamination (E. coli Genomic) 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.	Pass
Functional Testing (RT-LAMP, Master Mix) 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.	Pass
Functional Testing (LAMP, Master Mix) 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 genomic DNA and 1X LAMP	Pass

Assay Name/Specification	Lot # 10140940
<p>fluorescent dye results in a threshold time of ≤ 20 minutes as determined by fluorescent detection.</p> <p>Non-Specific DNase Activity (16 hour, Master Mix) 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.</p>	<p>Pass</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 for additional information.



Christie Vazquez
Production Scientist
03 Mar 2022



Michael Tonello
Packaging Quality Control Inspector
03 Mar 2022