

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: 10173079
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 # 10173079
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 (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 fluorescent dye results in a threshold time of ≤ 20 minutes as determined by fluorescent detection.	Pass
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.	Pass
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	Pass

Assay Name/Specification	Lot # 10173079
<p>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.</p> <p>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.</p>	<p>Pass</p>

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

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Trinh Nguyen
Production Scientist
03 Oct 2022



Mary Neal
Packaging Quality Control Inspector
14 Dec 2022