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## 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: 10131920
Expiration Date: 11/2023
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M1708SVIAL	WarmStart® Multi-Purpose LAMP/RT-LAMP 2X Master Mix (with UDG)	10130589	Pass	

Assay Name/Specification	Lot # 10131920
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 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>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.	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



M1708S / Lot: 10131920 Page 1 of 2 This product has been tested and shown to be in compliance with all specifications.

fluorescent dye results in a threshold time of ≤ 20 minutes as determined by

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Christie Vazquez Production Scientist 07 Dec 2021

fluorescent detection.

Josh Hersey

Packaging Quality Control Inspector

07 Dec 2021

