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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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:	10166604
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 # 10166604
Functional Testing (LAMP, Master Mix) A 25 μ l 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 \leq 20 minutes as determined by fluorescent detection.	Pass
Functional Testing (RT-LAMP, Master Mix) A 25 μ I 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 \leq 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 UDG) is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA	Pass





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Assay Name/Specification	Lot # 10166604
remains intact as determined by gel electrophoresis using fluorescent detection.	
qPCR DNA Contamination (E. coli Genomic) A minimum of 1 μ l 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 \leq 1 E. coli genome.	Pass

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.

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Trinh Nguyen Production Scientist 03 Oct 2022

Michael 2. 11

Michael Tonello Packaging Quality Control Inspector 12 Oct 2022

