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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:	M1708L
Concentration:	2 X Concentrate
Packaging Lot Number:	10114262
Expiration Date:	06/2022
Storage Temperature:	-20°C
Specification Version:	PS-M1708S/L v1.0
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)	10117508	Pass	

Assay Name/Specification	Lot # 10114262
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
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
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
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





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Assay Name/Specification	Lot # 10114262
fluorescent dye results in a threshold time of \leq 20 minutes as determined by fluorescent detection.	
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

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.

västie Vayanez

Christie Vazquez Production Scientist 02 Aug 2021

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Michael Tonello Packaging Quality Control Inspector 02 Aug 2021

