NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name:	*WarmStart® Colorimetric LAMP 2X Master Mix with UDG*
Catalog Number:	*M1804L*
Concentration:	*2 X Concentrate*
Packaging Lot Number:	*10088972*
Expiration Date:	*03/2021*
Storage Temperature:	*-20°C*
Specification Version:	*PS-M1804S/L v1.0*
Composition (1X):	*Proprietary*

WarmStart® Colorimetric LAMP 2X Master Mix with UDG Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
M1804SVIAL	WarmStart® Colorimetric LAMP 2X Master Mix with UDG	10082498	**Pass**

Assay Name/Specification	Lot # 10088972
Non-Specific DNase Activity (16 hour, Master Mix) A 50 µl reaction in 1X WarmStart® Colorimetric 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**
qPCR DNA Contamination (E. coli Genomic) A minimum of 1 µl of WarmStart® Colorimetric 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® Colorimetric 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® Colorimetric LAMP Master Mix with UDG in the	**Pass**

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Assay Name/Specification	Lot # 10088972
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.	
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® Colorimetric 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**

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
17 Nov 2020

Michael Tonello
Packaging Quality Control Inspector
17 Nov 2020