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New England Biolabs
Certificate of Analysis

Product Name:	*LyoPrime WarmStart™ Fluorescent LAMP/RT-LAMP Mix (with UDG)*
Catalog Number:	*L4401P*
Lot Number:	*10228545*
Expiration Date:	*02/2026*
Storage Temperature:	*15°C to 25°C*
Specification Version:	*PS-L4401S/P v1.0*

Assay Name/Specification	Lot # 10228545
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 2X LyoPrime WarmStart™ Fluorescent LAMP/RT-LAMP 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**
qPCR DNA Contamination (E. coli Genomic) A minimum of 1 µl of 2X LyoPrime WarmStart™ Fluorescent LAMP/RT-LAMP 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**
Non-Specific DNase Activity (16 hour, Master Mix) A 50 µl reaction in 1X LyoPrime WarmStart™ Fluorescent LAMP/RT-LAMP 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**
Functional Testing (RT-LAMP, Master Mix) A 25 µl reaction with 1X LyoPrime WarmStart™ Fluorescent LAMP/RT-LAMP Mix (with UDG) in the presence of 1X LAMP primers containing 10 ng of genomic RNA 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 LyoPrime WarmStart™ Fluorescent LAMP/RT-LAMP Mix (with UDG) in the presence of 1X LAMP primers containing 10 ng of genomic DNA results in a threshold time of ≤ 20 minutes as determined by fluorescent detection.	**Pass**

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

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