

New England Biolabs Product Specification

<i>Product Name:</i>	<i>WarmStart® Colorimetric LAMP 2X Master Mix with UDG</i>
<i>Catalog #:</i>	<i>M1804S/L</i>
<i>Concentration:</i>	<i>2X Concentrate</i>
<i>Shelf Life:</i>	<i>6 months</i>
<i>Storage Temp:</i>	<i>-20°C</i>
<i>Composition (1X):</i>	<i>Proprietary</i>
<i>Specification Version:</i>	<i>PS-M1804S/L v1.0</i>
<i>Effective Date:</i>	<i>07 Jul 2020</i>

Assay Name/Specification (minimum release criteria)

Functional Testing (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 genomic DNA and 1X LAMP fluorescent dye results in a threshold time of ≤ 20 minutes as determined by fluorescent detection.

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.

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.

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.

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.

"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."



Date 07 Jul 2020

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Director of Quality Control

