

New England Biolabs Certificate of Analysis

Product Name: SARS-CoV-2 LAMP Primer Mix (N/E)
Catalog Number: S1883S
Concentration: 10 X Concentrate
Packaging Lot Number: 10164554
Expiration Date: 08/2024
Storage Temperature: -20°C
Specification Version: PS-S1883S v1.0
Composition (1X): Proprietary

SARS-CoV-2 LAMP Primer Mix (N/E) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1883AVIAL	SARS-CoV-2 LAMP Primer Mix (N/E)	10162328	Pass

Assay Name/Specification	Lot # 10164554
<p>Functional Testing (RT-LAMP, SARS-CoV-2) A 25 µl reaction in 1X WarmStart® LAMP Master Mix with UDG in the presence of LAMP Fluorescent Dye and 1X SARS-CoV-2 LAMP Primer Mix (N/E) containing 500 copies of synthetic SARS-CoV-2 RNA results in a threshold time of ≤ 20 minutes as determined by fluorescent detection. Reactions that lack SARS-CoV-2 RNA template remain negative over a 30 minute incubation at 65°C.</p>	Pass
<p>Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 2 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 µl of SARS-CoV-2 LAMP Primer Mix (N/E) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass
<p>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 SARS-CoV-2 LAMP Primer Mix (N/E) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	Pass
<p>Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl₂ containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl of SARS-CoV-2 LAMP Primer Mix (N/E) incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase</p>	Pass

Assay Name/Specification	Lot # 10164554
<p>activity as determined by spectrophotometric analysis.</p> <p>Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 5 µl of SARS-CoV-2 LAMP Primer Mix (N/E) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	<p>Pass</p>

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

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Trinh Nguyen
Production Scientist
24 Aug 2022



Erin Varney
Packaging Quality Control Inspector
13 Sep 2022