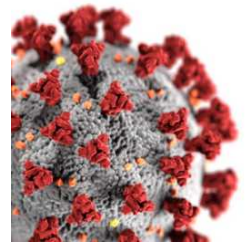


Aug 31, 2020

🌐 microfluidic sars cov 2 lamp protocol

DOI

<https://dx.doi.org/10.17504/protocols.io.bkjjkukn>



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¹IMT

Coronavirus Method De...

covid19-test

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Alexandru Salceanu

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Protocol status: Working

Tested Protocol for SARS CoV-2 detection using LAMP Amplification

Created: August 31, 2020

Last Modified: September 01, 2020

Protocol Integer ID: 41291

Keywords: microfluidic sars cov, lamp protocol, sar, lamp

Materials

STEP MATERIALS



1L TE Buffer [1X], pH 8.0, Low EDTA (Tris-EDTA; 10mM Tris base, 0.1mM EDTA) **G-Biosciences Catalog #786-152**



WarmStart Colorimetric LAMP 2X Master Mix (DNA and RNA) - 100 rxns **New England Biolabs Catalog #M1800S**



LAMP Primer MIX N-gene SARS-Cov-2 **eurofins genomics Catalog #NA**



Water, nuclease-free **Thermo Fisher Catalog #R0581**

Protocol materials



1L TE Buffer [1X], pH 8.0, Low EDTA (Tris-EDTA; 10mM Tris base, 0.1mM EDTA) **G-Biosciences Catalog #786-152**



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Water, nuclease-free **Thermo Fisher Catalog #R0581**



LAMP Amplification

40m

1

MIX saliva in 1x TE buffer

10m

Add  500 μL of

 1L TE Buffer [1X], pH 8.0, Low EDTA (Tris-EDTA; 10mM Tris base, 0.1mM EDTA) **G-Biosciences Catalog #786-152**

and mix with  500 μL saliva sample

Incubate at  65 °C for  00:10:00

2

LAMP Colorimetric Amplification

30m

Add  12.5 μL of

 WarmStart Colorimetric LAMP 2X Master Mix (DNA and RNA) - 100 rxns **New England Biolabs Catalog #M1800S**

Add  2.5 μL of

 LAMP Primer MIX N-gene SARS-Cov-2 **eurofins genomics Catalog #NA**

Add  8 μL of

 Water, nuclease-free **Thermo Fisher Catalog #R0581**

Add  2 μL of product from step 1

Incubate for  00:30:00 at  65 °C

Read the colour of the reaction mix

Expected result

Red - SARS Cov 2 - negative
Yellow- SARS Cov2 - positive