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microfluidic sars cov 2 lamp protocol

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covid19-test

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STEPS MATERIALS

NAME	CATALOG #	VENDOR
1L TE Buffer [1X], pH 8.0, Low EDTA (Tris-EDTA; 10mM Tris base, 0.1mM EDTA)	786-152	G-Biosciences
WarmStart Colorimetric LAMP 2X Master Mix (DNA and RNA) - 100 rxns	M1800S	New England Biolabs
LAMP Primer MIX N-gene SARS-Cov-2	NA	eurofins genomics
Water, nuclease-free	R0581	Thermo Fisher

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)

by G-Biosciences

Catalog #: 786-152

and mix with  **500 µl** saliva sample

Incubate at  **65 °C** for  **00:10:00**

30m

2

LAMP Colorimetric Amplification

Add  **12.5 µl** of



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

Add  **2.5 µl** of




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

Add  **8 µl** of



Water, nuclease-free
by 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



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