🌐 microfluidic sars cov 2 lamp protocol

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[1]IMT

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| 1 | *Works for me* | dx.doi.org/10.17504/protocols.io.bkjjkukn |

covid19-test

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41291

STEPS MATERIALS

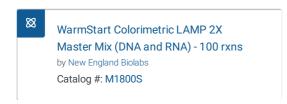| NAME	CATALOG #	VENDOR
1L TE Buffer [1X], pH 8.0, Low EDTA (Tris-EDTA; 10mM Tris base, 0.1mM EDTA)	786-152	G-Biosciences
WarmStart Colorimetric LAMP 2X Master Mix (DNA and RNA) - 100 rxns	M1800S	New England Biolabs
LAMP Primer MIX N-gene SARS-Cov-2	NA	eurofins genomics
Water, nuclease-free	R0581	Thermo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

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LAMP Colorimeteric 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