



GM Covid-19 saliva test (v2) V.2

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1 GM Biosciences

Version 2 ▾

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Works for me

This protocol is published without a DOI.

Dec 04, 2020

Narwhale for XPrize



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ABSTRACT

GM Covid-19 saliva test is a RT-PCR test intended for qualitative detection of nucleic acids from SARS-CoV-2 in saliva specimen. The test is used for screening purpose under class of "research used only" (RUO). The test is not for diagnostic purpose. Positive result would be referred to an official clinical test with appropriate certification (i.e CLIA) required for clinical diagnosis.

PROTOCOL CITATION

2020. GM Covid-19 saliva test (v2). **protocols.io**
<https://protocols.io/view/gm-covid-19-saliva-test-v2-bqdams2e>
 Version created by George zhu

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CREATED

Dec 03, 2020

LAST MODIFIED

Dec 04, 2020

PROTOCOL INTEGER ID

45186

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Setup reaction

26m

- 1 **Prepare PCR master mix** 5m
 Prepare 100 reactions by adding 1ml Buffer into 1ml Enzyme. Aliquot 20ul into each PCR tube.
- 2 **Saliva-Prep** 21m
 Saliva is self-collected into any sterile tubes with screw cap and wide opening (Sanitize hands before and after saliva collection);
 Use disposable transfer pipette with fixed volume to pipett saliva into a Saliva-Prep tube, tightly screw cap, and mix thoroughly;
 Heat the Saliva-Prep tube at **70 °C** for **00:10:00** by using a water bath or dry-bath;
 Keep the tube in refrigerator for **00:10:00** , then on GM-rack for **00:01:00**

1m

3 Load sample

Use disposable GM-stick to slowly insert into Saliva-prep tube and slowly pull it out, then directly dip it into a PCR tube. Close PCR tube. Repeat this step for each sample. Pulse spin the PCR strip/plate to bring the liquid to bottom.

49m

4 RT-PCR

Put the PCR strip/plate into a thermal cycler, choose and start the program "GM Covid19 Test". Note: The test is suitable for conventional thermal cyclers. BenchMark's TC32 and Thermofisher's Veriti thermocycler have been tested.

1m

5 Check color

Check color of PCR reactions while keeping PCR tube closed. There are two ways to check color of PCR reactions: Step 5 includes a Step case.

Color Reader**Naked eye observation**