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Protocol status: Working
 We use this protocol and it's working

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🌐 XPRIZE SANATA Protocol for Saliva LFIA Test V.2

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XPRIZE Rapid Covid Testing

SANATA

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ABSTRACT

This procedure outlines the protocol for testing for SARS-CoV-2 using a saliva sample collected from an individual. The purpose of this test is to detect low levels of SARS-CoV-2 antigen at a higher sensitivity. Precision Biomonitoring Inc. developed an ultra-rapid digital, disposable, highly-sensitive and inexpensive testing device used for screening purposes. The mobile app complementary to this medical device is connected through Bluetooth. Using this innovation, the user can be tested at point-of-care (POC) by a health care professional, and obtain qualitative results.

GUIDELINES

- The digital device kits should be stored at room temperature and should never be exposed to extreme temperatures.
- The digital device kits are for single use. Do not reuse the kits. Dispose of all used materials in a biohazard waste container.
- Positive test results should be confirmed by RT-PCR by a health professional.

PROTOCOL integer ID:
45230

Keywords: Lateral Flow,
Covid-19, SARS-Cov-2,
Antigen Testing, Pandemic,
Global Pandemic, Virus

MATERIALS

MATERIALS

- SALIVA Lysis Tube Precision Biomonitoring Inc. Catalog #SALLT202001
- Disposable Graduated Transfer Pipette Fisher Scientific Catalog #13-711-9AM
- Specimen Container Canadawide Scientific Inc. Catalog #324-765-04
- LFIA Testing Device Precision Biomonitoring Inc. Catalog #N/A
- Samco™ Exact Volume Transfer Pipettes, 100µL, Non-sterile Thermo Fisher Catalog #787TS

Bluetooth Smartphone

SAFETY WARNINGS

- When working with human saliva and other human bodily fluids, there may be pathogens present. Wear the correct personal protection equipment (ie. gloves) and wash your hands immediately after removing the gloves.

BEFORE START INSTRUCTIONS

Refrain from consuming food or beverage (including water) for 30 minutes before providing a saliva sample.

Setting up the test

20s

1

20s

Note

Refrain from consuming food or beverage (including water) for 30 minutes before providing a saliva sample.

Note

Ensure the smartphone is fully charged and Bluetooth on the smartphone is turned on. The mobile app should be downloaded and ready to run.

Safety information

When working with human saliva and other human bodily fluids, pathogens may be present. Wear gloves and wash your hands immediately after removing the gloves.

Preping ingredients

1m 10s

2 Collect saliva in

40s

Equipment

Specimen Container

NAME

Canadawide Scientific

BRAND

324-765-04

SKU

3 Transfer 1 mL of saliva into the

10s

Equipment

SALIVA Lysis Tube

NAME

Precision Biomonitor

BRAND

SALLT202001

SKU

using the

Equipment		
Disposable Graduated Transfer Pipette		NAME
Fisherbrand™		BRAND
13-711-9AM		SKU

- 4 Mix the saliva-buffer mixture using the

20s

Equipment		
Disposable Graduated Transfer Pipette		NAME
Fisherbrand™		BRAND
13-711-9AM		SKU

by squeezing the bulb of the pipette 10 times slowly in the Saliva Lysis Tube from Step 3.

- 5 Let saliva-buffer mixture sit at Room temperature for 00:05:00 before transferring mixture to LFA Device.

5m

Using the Testing device

12m 20s

- 6 Using the

10s

Equipment

100µL Exact Volume Transfer Pipette

NAME

Thermofisher Scientific

BRAND

787TS also known as 787

SKU

Apply 100 µL of the saliva-buffer mixture into the sample port of the

Equipment

LFIA Device

NAME

Precision Biomonitoring Inc.

BRAND

N/A

SKU

- 7 Place the device on a flat surface. Let the sample mixture run undisturbed for 00:17:00 at Room temperature . 17m
- 8 Ensure the smartphone is connected to the testing device through Bluetooth and read the results using the mobile phone app. 10s

Expected result

The result will appear on screen as positive, negative, or inconclusive. If the result is inconclusive, conduct another test with a new device.