SEP 07, 2020

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.bkzjx4n

Protocol Citation: Mario Thomas, Jasmine Sollen, Natalia Ivanova, Heidi Abdilla, Reda Fayek, Michelle Feng, Stephanie Lim, Amanda Naaum 2020. XPRIZE SANATA Protocol for Swab LFIA Test. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.bkzjx4n>

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Protocol status: Working
 We use this protocol in our workspace and it is working.

Created: Sep 07, 2020

Last Modified: Sep 07, 2020

PROTOCOL integer ID:
 41739

🌐 XPRIZE SANATA Protocol for Swab LFIA Test

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XPRIZE Rapid Covid Testing

SANATA

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ABSTRACT

This procedure outlines the protocol using any swab suitable for a SARS-CoV-2 sample collection. 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 patients can be tested at the point-of-care (POC), and obtain qualitative results. It is recommended that positive results should be confirmed by RT-PCR.

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 biohazardous waste container.
- It is recommended that positive results should be confirmed by RT-PCR.

MATERIALS

MATERIALS

⊗ SWAB Lysis Tube **Precision Biomonitoring Inc. Catalog #SWALT202001**

⊗ Disposable Graduated Transfer Pipette **Fisher Scientific Catalog #13-711-9AM**

⊗ Flocked Swab **Fisher Scientific Catalog #22-025-195**

⊗ LFIA Testing Device **Precision Biomonitoring Inc. Catalog #N/A**

Bluetooth Smartphone

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

SAFETY WARNINGS

- ⚠ When working with human bodily fluids, pathogens may be present. Wear the correct personal protection equipment (ie. disposable gloves) and wash your hands immediately after removing the gloves. Dispose of materials in biohazardous waste containers.

Setting up the test

10s

1

10s

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 bodily fluids, pathogens may be present. Wear the correct personal protection equipment (ie.gloves) and wash hands immediately after removing the gloves.

Collecting and Preparing Sample

1m

2

Collect sample using any swab suitable for SARS-CoV-2 sample collection. For example:

30s

Equipment

Flocked Swab

NAME

Fisher Scientific

BRAND

22-025-195

SKU

3 Rinse the used swab in

30s

Equipment		
SWAB Lysis Tube		NAME
Precision Biomonitoring Inc.		BRAND
SWALT202001		SKU

by submerging the swab in the lysis buffer and rotating 5-7 times against the tube walls. Discard the swab in a biohazardous waste container.

Using Testing Device

13m 10s

4 Using

1m

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

apply 80 µL (3 drops) of the contents of the SWAB Lysis Tube into the sample port of the

Equipment		
LFIA device		NAME
Precision Biomonitoring Inc.		BRAND
N/A		SKU

- 5 Place device on a flat surface. Let sample mixture run undisturbed for 00:12:00 at Room temperature . 12m
- 6 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.