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NuFaction SARS-CoV2 Antigen Test Protocol

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XPRIZE Rapid Covid Testing

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Saliva Specimen Collection

2m

1 Remove the device with onbaord diagnostic flow assay from packaging.

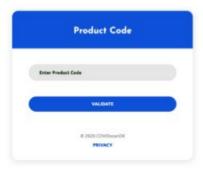
20s

2 Orient the diagnostic device with the assay cartidge side down and specimen recepticle port facing upward.

10s

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	2.1	(While the device is a diagnostic mask worn by the end user in an upright position, the side down orientation detailed here is to accomodate the tester for manual dispensing of clinical sample)	n
3	Initiate the test by dispensing the standard test volume of saliva specimen into the specimen recepticle por fluid is funneled downward . If there are no restrictions, a volume range of 500uL - 1.5mL is suggested.		
	3.1	(Step 3 simulates the end user action of delivering their own saliva/sputum sample while wearir mask)	ng the
4	Wait 1 minute a	and then proceed to Running the Assay.	1m
Runnino	g the Assay	7m	
5	-	contents (500uL) of Reagent Mixture 1 into the same sample port that saliva was delivered to.	25s
6	Wait 1 minute a	at room temperature.	1m
7	Dispense entire	contents (500uL) of Reagent Mixture 2 into the same sample port that saliva and Mix 1 were ad	25s ded.
8	Wait 5 minutes	at room temperature for results to develop.	5m
9	Flip the device a	assembly upside-down on top of original packaging material to contain residual specimen.	10s
10	Results will be v	visible through the flow assay cartridge test window (now facing upwards)	
Mobile /	Assay Application	n	
11	For iOS iPad and iPhone devices newer than 2018 use the following procedure. To scan the result of the developed test open the Safari browser on the iPad or iPhone device and navigate to www.register.covidscandx.com. For Android Samsung Galaxy Tab A 10.1 inch (2019) use the following procedure. To scan the result of the developed test open the default browser on the tablet and navigate to www.register.covidscandx.com.		
12	Enter the unique single-use product ID code included in the kit on the COVIDscanDX card. *Note the product code will expire after a valid image is automatically captured and a result is provided. Keep the COVIDscanDX card and product code to access the detailed results in the future to share with your electronic record of your result with your health care provider, travel entry authority, employer etc.		



Product code entry screen

- Following valid product code entry a new page is displayed on the device that gathers information about testing location and conditions and/or test subject symptoms. The user enters the information in the fields and provide a visual score of the test region signal ranging from 0-5 according to the COVIDscanDX card examples. A score of 0 indicates no test signal is visible while a score of 5 indicates the strongest test signal.
- The application will ask for permission to open the device camera application. The user gives permission and positions the displayed blue box landmarks over the aruco targets and QR code until the blue boxes turn green and test image capture occurs within 1 second. If the lighting conditions are not optimal for image capture an error messaage will be shown that instructs the user to adjust the lighting or position of the test cartridge and image again.
- Once the images have been captured the user is notified and server-side algorithms check the images for lighting conditions and position. A Positive, Negative or Invalid result will appear on the device display within 5 seconds (assuming web connectivity). Depending on the result the user is given instructions on further support to establish the diagnosis of COVID-19 via telemedicine portal.
- Post test results are accessible for review and integration via JSON or CSV format to partner database by site approved users through the partner dashboard.