Sampinute[™] COVID-19 Antigen MIA

For use under the Emergency Use Authorization (EUA) only For in vitro diagnostic use For Prescription Use only

INTENDED US

Sampinute¹⁰⁰ COVID-19 Antigen MIA is a magnetic force-assisted electrochemical sandwich immunoassay (MESIA) intended for the qualitative detection of receptor binding domains (RBDs) spike proteins from SARS-CoV-2 in nasopharyngeal swab specimens directly collected or collected in either BD Universal Viral Transport Media, Copan UTM-RT or CDC's formulation of VTM from symptomatic individuals who are suspected of COVID-19 by their healthcare provider within the first five (5) days of symptom onset when tested at least twice over three days with at least 48 hours between tests. Testing is limited to laboratories certified under the Clinical Laboratory Improvement Amendments of 1988(CLIA), 42 U.S.C. §263a, the meet requirements to perform high or moderate complexity tests.

Results are for the identification of the receptor-binding domain (RBD) of SARS-CoV-2 spike protein antigens. Antigen is generally detectable in nasopharyngeal swab specimens during the acute phase of infection. Positive results indicate the presence of viral antigens, but clinical correlation with patient history and other diagnostic information is necessary to determine infection status. Positive results do not rule out bacterial infection or co-infection with other viruses. The agent detected may not be the definitive cause of disease. Laboratories within the United States and its territories are required to report all results to the appropriate public health authorities.

All negative results are presumptive and confirmation with a molecular assay, if necessary, for patient management may be performed. Negative results do not rule out SARS-CoV-2 infection and should not be used as the sole basis for treatment or patient management decisions, including infection control measures such as isolating from others and wearing masks. Negative results should be considered in the context of a patient's recent exposures, history and the presence of clinical signs and symptoms consistent with COVID-19.

The Sampinute[™] COVID-19 Antigen MIA is intended for use by trained clinical laboratory personnel specifically instructed on *in vitro* diagnostic procedures. The Sampinute[™] COVID-19 Antigen MIA is only for in vitro diagnostic use under the Food and Drug Administration's Emergency Use Authorization. This product has not been FDA cleared or approved.

SUMMARY AND EXPLANATION

SARS-CoV-2, which causes the disease COVID-19, was first discovered in Wuhan, Hubei Province, China in December 2019, where it was first thought to have spread from bats. However, the coronavirus is also thought to have infected other animals as intermediary hosts.^{III} The virus spreads primarily through small droplets produced from coughing, sneezing, and talking.^{IIII} The median incubation time is estimated to be 5.1 days with symptoms expected to be present within 12 days of infection.^{IV}

PRINCIPLE OF THE TEST

The Sampinute[™] COVID-19 Antigen MIA employs magnetic force-assisted electrochemical sandwich immunoassay that is used with Sampinute[™] Analyzer to detect spike proteins from SARS-CoV-2.

The patient sample is collected using a nasopharyngeal swab (NPS) and is either directly placed into the Reagent Solution Tube supplied in the kit or a validated viral transport media (VTM). In the case of the Reagent Solution, the sample should be processed for analysis within one hour. For validated VTM, room temperature-equilibrated samples can be directly processed for analysis. If the patient specimen is frozen, the sample should be fully thawed and equilibrated to room temperature.

The sample is dispensed via reagent tube or pipette into the sample inlet of a Sampinute™ COVID-19 Antigen MIA test cartridge.

The sample flows along the microfluidic channel, and if SARS-CoV-2 spike proteins are present in the sample, they form complexes with anti-SARS-CoV-2 spike protein antibodies conjugated to MNPs. These complexes eventually encounter and bind onto the working electrode of the electrochemical sensor, that is coated with anti-SARS-CoV-2 spike protein antibodies. *Via* magnetic actuation, the antigen antibody reactions are actively controlled. This ensures that the MNPs and the antigens are thoroughly mixed to form immuno-complexes on the electrode. The unbound MNPs are removed *via* magnetic field.

Subsequently to the magnetic actuation step, the device proceeds to the introduction of a detection buffer followed by the electrochemical measurement step, wherein a voltage is applied to induce electrochemical oxidation and reduction of gold on the MNPs, resulting in the electric current.

The test results reveal the presence (positive) or absence (negative) of SARS- CoV-2 spike protein antigens by measuring the quantity of electric current compared to a lot-specific cut-off value. The Sampinute[™] Analyzer will display the test results (positive, negative) on the screen.

REAGENTS AND MATERIALS SUPPLIED

Principal Ingredients

Each test cartridge of the Sampinute[™] COVID-19 Antigen MIA contains the main reactants and components shown below:

- MNPs conjugated with monoclonal antibodies specific for RBD of spike protein from SARS-CoV-2.
- Electrodes coated with monoclonal antibodies specific for RBD of spike protein from SARS-CoV-2.

Product Package Components

25 test cartridges of Sampinute[™] COVID-19 Antigen MIA are provided in the package, which can be used to analyze up to 25 samples, including the control solutions provided in the package.

The package contains the following:

- Sampinute[™] COVID-19 Antigen MIA (25): test cartridges with monoclonal anti-SARS-CoV-2 antibodies, MNPs, and electrochemical sensors.
- Reagent Tubes (25): containing reagent solution for collecting specimens.
- Sterile nasal swabs (25): flexible swabs for collecting specimens.
- Negative control solution (1): salt solution with less than 0.1% sodium azide. Upon measurement, the results are expected to show negative, as no spike proteins are present in the control solution. One valid result of the analysis of the negative control solution should be obtained per package.
- Positive control solution (1): salt solution with non-infectious SARS-CoV-2 antigen and less than 0.1% sodium azide. Upon measurement, the results are expected to show positive, as SARS-CoV-2 spike proteins are present in the control solution. One valid result of the analysis of the positive control solution should be obtained per package.
- Package insert

MATERIALS REQUIRED BUT NOT PROVIDED

- Sampinute[™] Analyzer
- Adapter
- Power cord
- Barcode scanner
- Printer
- BD Universal Viral Transport (UVT), Copan Universal Transport Media (UTM), or Viral Transport Media (VTM), the preparation of which follows the CDC protocol for <u>SOP DSR-052-</u> <u>05</u>(https://www.cdc.gov/coronavirus/2019-ncov/downloads/Viral Transport-Medium.pdf).
- A pipette and disposable tips to transfer the specimen
- A vortex shaker (or a mixer)



WARNINGS, PRECAUTIONS, AND SAFETY INFORMATION

- Read all instructions carefully before performing the test. Failure to follow the instructions may result in inaccurate test results.
- For in vitro diagnostic use.
- For prescription use only.
- In the USA, this product has not been FDA cleared or approved, but has been authorized by FDA under an Emergency Use Authorization (EUA) for use by authorized laboratories certified under the CLIA that meet the requirements to perform moderate or high complexity tests. This product has been authorized only for the detection of proteins from SARS-CoV-2, not for any other viruses or pathogens. This emergency use of this product is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostic tests for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.
- Serial testing should be performed in individuals with negative results at least twice over three days (with 48 hours between tests) for symptomatic individuals. You may need to purchase additional tests to perform this serial (repeat) testing.
- Wear a safety mask or other face-covering when collecting a specimen from a child or another individual.
- Do not use if any of the test kit contents or packaging is damaged.
- Do not use kit past its expiration date.
- Do not touch the swab tip.
- Once opened, the test cartridge should be used immediately.
- Federal Law restricts this device to sale by or on the order of a licensed practitioner (US only).
- Laboratories within the United States and its territories are required to report all results to the appropriate public health laboratories.
- Only use Sampinute[™] COVID-19 Antigen MIA test cartridges with the Sampinute[™] Analyzer.
- The recommended measurement temperature range for the analyzer is 15-30°C (59-86°F).
- Only use the Sampinute[™] COVID-19 Antigen MIA test cartridges after a full system check according to the Sampinute[™] Analyzer user manual.
- Wear disposable protective gloves when handling the Sampinute[™] COVID-19 Antigen MIA test cartridges and human specimens. Treat all specimens as potentially infectious and follow universal precautions when handling specimens.
- All components of this kit should be discarded as Biohazard waste according to Federal, State and local regulatory requirements.

- Gently press the Sampinute[™] COVID-19 Antigen MIA test cartridge down onto the tray of the Sampinute[™] Analyzer gently until it will go no further.
- Test components are single-use. Do not re-use.
- Place the test cartridge on the tray with the labelled side facing up.
- Take a precise amount of sample (in the case of using the reagent solution tube, insert 1-2 drops, whereas using the micropipette, draw 50 μL) for each test and insert it into the sample inlet at once.
- Discard the Sampinute[™] COVID-19 Antigen MIA test cartridge after use as required by internal quality control procedures and in accordance with local, state and federal regulations or accreditation requirements.
- Do not swallow or damage the Sampinute[™] COVID-19 Antigen MIA test cartridge.
- Follow safety procedures set by your institution for working with chemicals and handling biological specimens.
- Keep testing kit and kit components away from children and pets before and after use. Avoid contact with your skin, eyes, nose, or mouth. Do not ingest any kit components. The reagent solution contains harmful chemicals (see table below). If the solution contacts the skin or eye, flush with large amounts of water. If irritation persists, seek medical advice: https://www.poisonhelo.org or 1-800-222-1222.

Chemical Name (CAS)	GHS Code for each ingredient	Conc.
Sodium Azide (26628-22-8)	Acute Tox.2 (oral), H300 Acute Tox.1 (dermal), H310	0.1%
Calcium Chloride (10043-52-4)	Serious eye damage/eye irritation, H319	1mM

- For more information on EUAs please visit: https://www.fda.gov/emergency-preparednessand-response/mcm-legal-regulatory-and-policy-framework/emergency-use-authorization
- For the most up to date information on COVID-19, please visit: www.cdc.gov/COVID19

KIT STORAGE AND STABILITY

Keep the cartridge packaged in the provided aluminum pouch. Keep the product refrigerated (2-8°C, 36-46°F). Upon preparation, the test cartridge must be placed at room temperature (15-30°C, 59-86°F) at least 30 minutes before use. Use the cartridge immediately after opening the aluminum pouch. Do not expose the product to direct sunlight.

QUALITY CONTROL

Before the actual sample test, the Sampinute[™] Analyzer and the Sampinute[™] COVID-19 Antigen MIA test cartridges must go through a system check, as well as an external quality control test using positive and negative sample control solutions.

Sampinute[™] Analyzer Test Internal Controls

The screen on the device will show whether the sample analyzed is either negative, positive or associated with any error(s).

All test procedures (e.g., sample injection, antigen enrichment, buffer insertion) are monitored *via* internal sensors, where errors or improper executions are communicated through automated error messages.

The following two tables describe the errors that can occur with the Sampinute Analyzer. Table 1 describes the Error Notifications which are messages that appear on the lower side of the user interface and disappear after three seconds. Table 2 describes Error Popups which appear immediately when an error occurs during the test procedure.

Frror Notifications	Descriptions and Solutions Admin password is not inputted. Displayed when touching the 'OK' button without having entered the admin password. Solution: Input the admin password and then touch the
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No.	Error Notifications	Descriptions and Solutions
		' ОК ' button.
2	Diagon input the beenited code	Hospital code is not inputted. Displayed when touching the ' DONE ' button without having entered the hospital code.
	Please input the hospital code.	Solution: If a hospital code is required, contact the administrator. Input the hospital code and then touch the ' DONE ' button.
3	Unregistered hospital code	Unregistered hospital code Displayed when unregistered hospital code is entered.
5	Please contact administrator.	Solution: If a hospital code is required, contact the administrator. Input registered hospital code. If the issue persists, contact the administrator.
4	Failed to connect to network. Please try again.	No response from server Displayed when device registration fails due to lost network connection or other errors which make server communication unavailable. Solution: Either try to connect again at a later time or connect to another network.
5	Unknown error. Please try again.	Wi-Fi communication error The alert pops up when Wi-Fi communication is failed. Solution: Try again. If the issue persists, then contact the administrator.
6	Please try again after connecting to a network.	No Wi-Fi Connection Displayed when device requests server communication for Wi-Fi connection. Solution: Connect to Wi-Fi.
7	Low battery. 14% of the battery level is remaining. The remaining battery must be 15% or higher to	Low battery

No.	Error Notifications	Descriptions and Solutions
	run the analyzer. Please connect the analyzer to a power source.	Displayed when touching the low-battery icon on the home screen. Solution: Connect to a power adapter.
8	Please perform the system check and the QC test prior to sample tests as instructed in the manual.	System check and QC test not performed Displayed when touching ' RUN TEST ' without having performed system check and QC test. Solution: Perform system check and QC test if required.
9	The system check was failed. Please check the results again. Contact the system administrator.	 Displayed when touching the system check warning icon [icon 43] on the home screen under the condition that the system check was failed. Solution: Perform system check. [Settings screen → System Check → Run System Check]
10	Either the QC test was failed or no tests have been performed within the set QC interval. Please check the results again.	Displayed when touching QC! icon on the home screen under the condition that either the QC test was failed or no analyses have been run within the set QC interval.
11	The temperature is not within operational range. (Current temperature: 38°C/100.4°F)	Inappropriate temperature Displayed when touching the temperature icon on the home screen which pops up when temperature is out of range for testing. Solution: Re-locate device in an environment of operational range (15-30°C / 59-86°F).
12	The admin account automatically logged out.	Administrator account logout Displayed when administrator account logs out before power off or reboot.
13	Please input the master password.	Master password has not been entered. Displayed when the ' OK' button is touched without master password input. Solution: Enter the master password.
14	Incorrect password. Please input the master password again.	Password input error Displayed when the correct password has not been entered.

No.	Error Notifications	Descriptions and Solutions
		Solution: Enter the correct password.
15	The fan is activated due to increased internal temperature	Fan activated Displayed when the fan is activated by the Celltrion
	of the analyzer.	Sampinute [™] Analyzer's temperature sensor operation.
		Wrong operator ID
16	Invalid ID. Please check the ID again.	Displayed when wrong operator ID is entered.
		Solution: Enter the correct ID.
		Operator ID has not been entered.
17	Please input the operator ID.	Displayed when touching ' OK ' without entering the operator ID.
		Solution: Enter the operator ID.
		Patient code has not been entered.
18	Please input the patient code.	Displayed when touching ' OK ' without entering the patient code.
		Solution: Enter the patient code.
19	Please insert test cartridge in the tray.	Tray ejection failure Displayed when a cartridge is not inserted in the tray within the spedified time period.
		Solution: Insert the cartridge immediately upon request.
		Cartridge is not removed.
20	Please remove the cartridge.	Displayed when cartridge is not removed upon request.
		Solution: Remove the cartridge.
		Current password mismatch.
21	Incorrect password. Please input the password correctly.	Displayed when you do not enter currently set password.

No.	Error Notifications	Descriptions and Solutions
		Solution: Enter the currently set password.
		New password mismatch
22	The new password and re- entered password do not match. Please input the passwords again.	Displayed on the Change Administrator Password screen when newly entered password does not match with the one typed in the new password confirm box.
		Solution: Ensure both passwords entered are the same.
		New administrator password has not been entered.
23	Please input the new admin password.	Displayed when a new administrator password has not been entered in the password setting screen.
		Solution: Enter new administrator password.
		Bluetooth disconnection
24	Please disconnect the device first and then try connecting the device.	Displayed when a new Bluetooth printer connection is requested while the analyzer is connected to a Bluetooth printer.
		Solution: Connect to the appropriate Bluetooth printer.
25	Please remove the USB port first and then try connecting the device.	USB disconnection Displayed when a Bluetooth printer connection is requested while the analyzer is connected to a USB mobile printer. Solution: Either disconnect the Bluetooth on the USB printer.

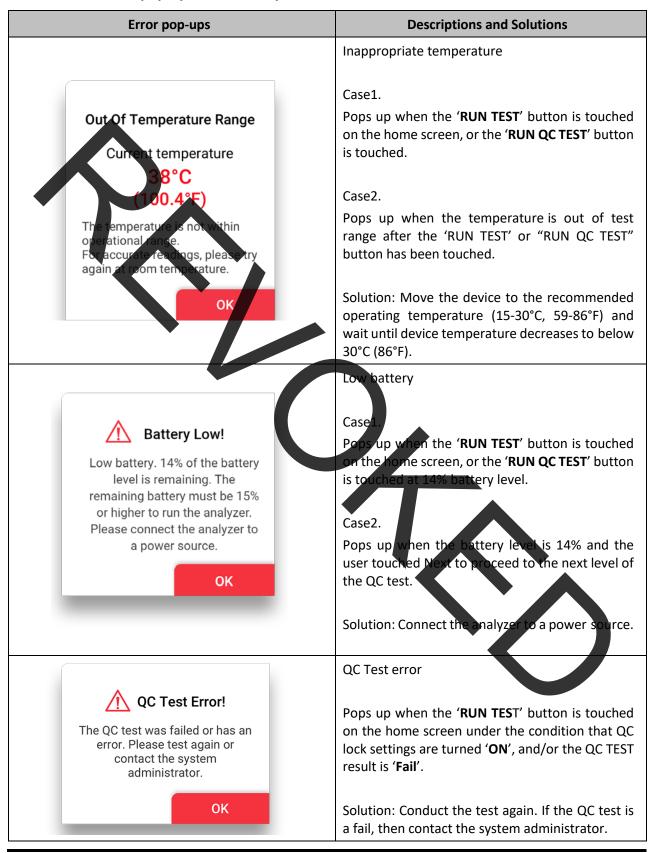
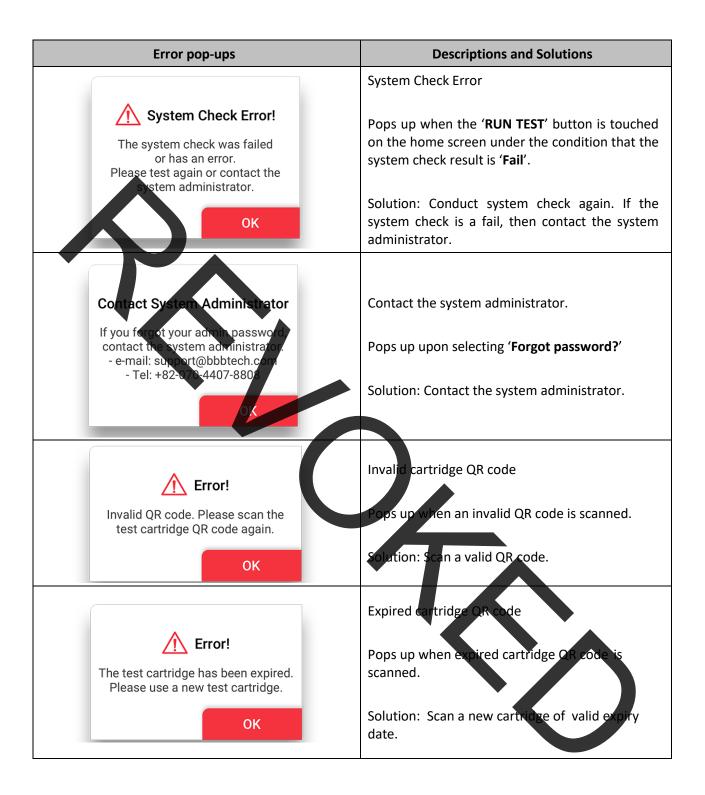
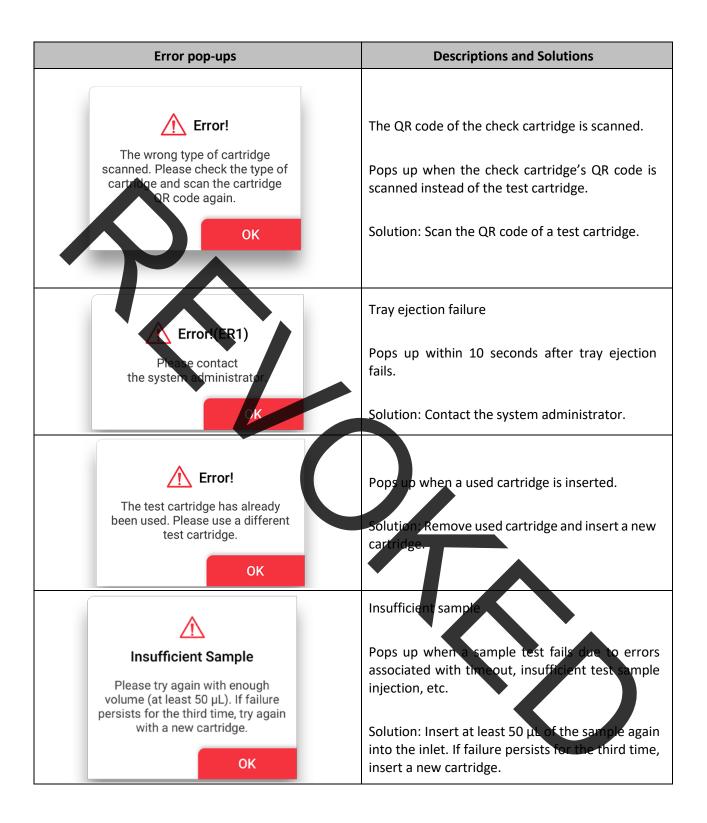
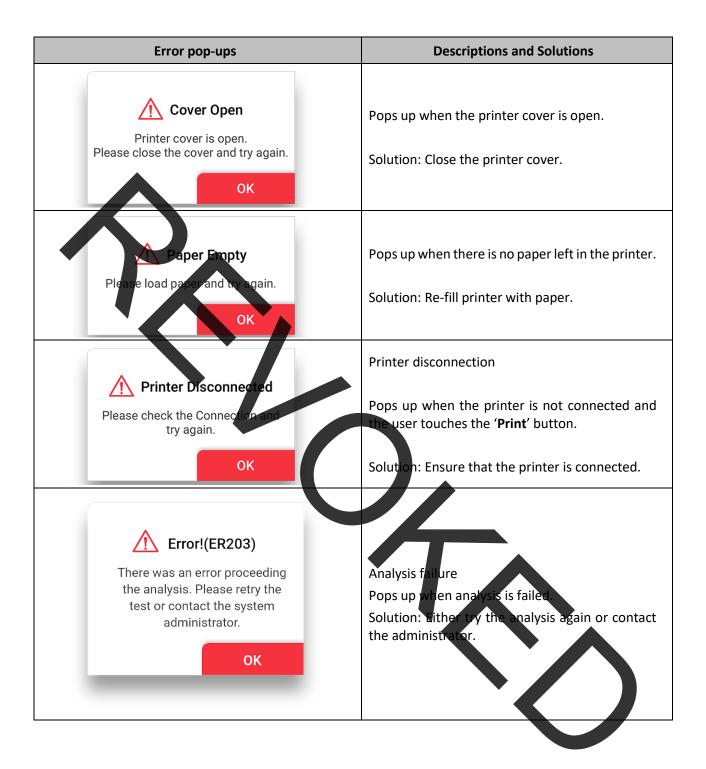


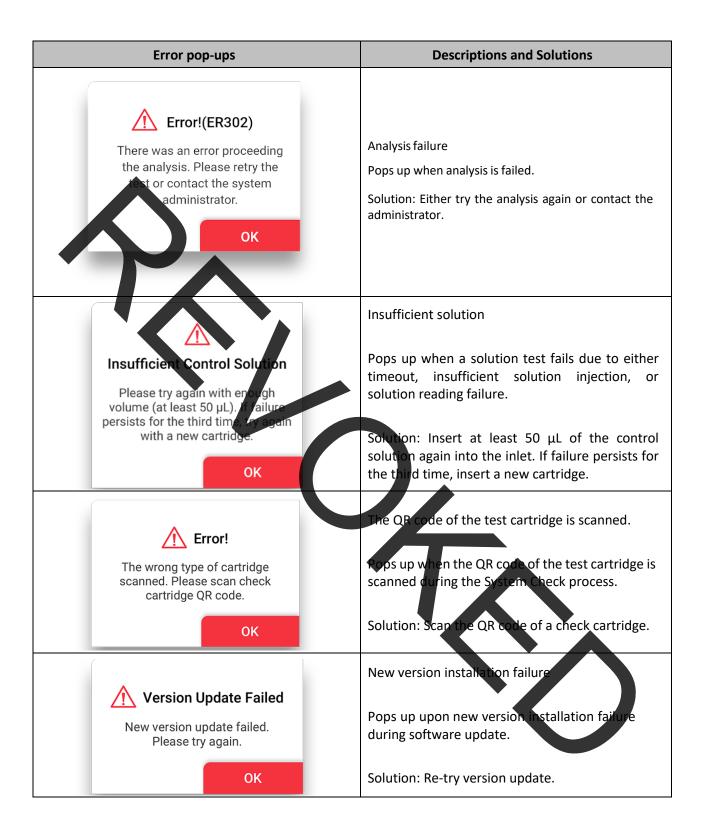
Table 2: Error pop-ups, their descriptions and solutions

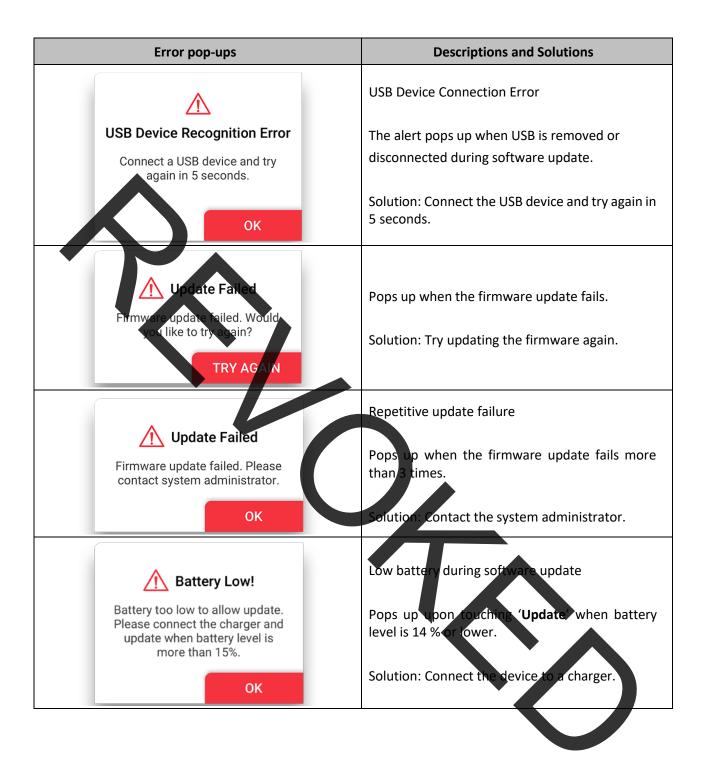
Sampinute[™] COVID-19 Antigen MIA







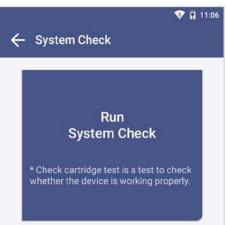




Sampinute[™] Analyzer System Check Procedure

System Check: The purpose of this test is to verify the proper operation of the Sampinute[™] Analyzer.

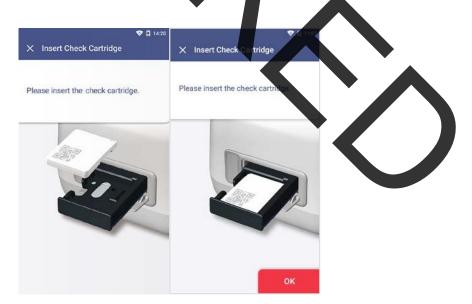
- 1. Touch the 'Run System Check' button
- 2. Scan the QR code of the check cartridge
 - a. Stan OR code on the check cartridge with the barcode scanner.



b. After scapning the QR code, the screen will display "Insert Check Cartridge."

Note:

- The barcode scanner has to be purchased separately.
- If you do not scan the QR code of the test cartridge, the test will not proceed.
- If the QR code recognition continues to fail, please contact the administrator.
- 3. Insertion of the check cartridge tr
 - a. Insert the check cartridge to the tray according to instructions on the screen.
 - b. Insert the check cartridge in the correct position.
 - c. Touch the **"OK"** button.



4. Start system check

- a. The system check takes about 1 minute.
- 5. Confirm the system check results
 - a. The test results are displayed upon completion.
 - After checking the results, remove the used cartridge from the tray.

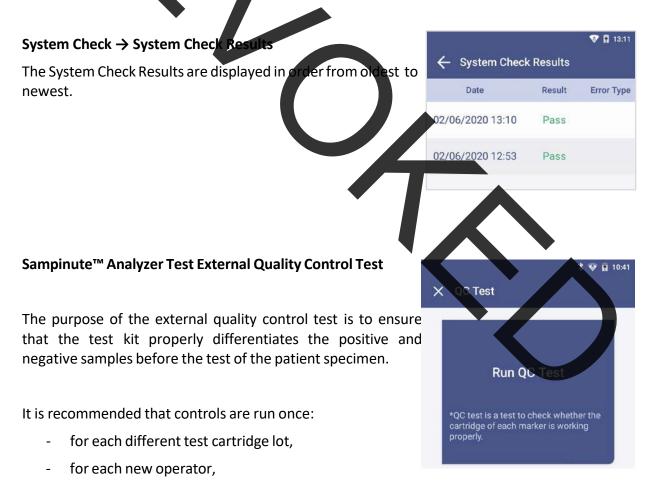
Touch the **"DONE"** (**DONE**) button to move to the home screen.

Note: Pass: Indicates that the device is working properly and a "V" () mark is displayed on the screen.

Fail: An error pressage and an "X" (🗙) mark is displayed on the screen.

Try out the test again or contact the administrator.

If the test fails under [Settings \rightarrow Lock Settings \rightarrow QC fail \rightarrow ON], a test cannot be run.



- as considered by internal quality control procedures and in accordance with local, state and federal regulations or accreditation requirements.

If either additional quality control solutions are needed or the procedure does not perform as expected, contact Celltrion Customer Services or BBB Customer Services.

- BBB Inc. (*via* website: <u>www.bbbtech.com</u>,or *via* phone: +82-70-4407-8808 or +82-2-565-9653)
- Celltrion USA, Inc. (*via* email: Sampinute@celltrion.com, or *via* phone: (201) 988-4615)
- 1. Touch the "Run QC Test" button.

2. Scan the operator ID.

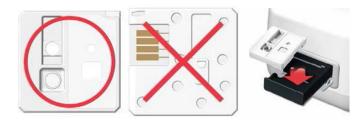
a Scan the operator ID with the barcode scanner or manually enter the operator ID using the keypad. Fouch the "OK" (

Note: If you do not have a barcode scanner, touch "Input operator ID manually" to enter the code using the keypad.

- 3. Scan the test cartridge QR code
 - a. Scan the QR code on the cartridge pouch with the barcode scanner.
 - b. Upon scanning the QR code, the test level, cartridge type and LOT will display on the screen.

Note: The barcode scanner has to be purchased separately. If the QR code recognition fails, scan a new cartridge pouch. Please check if the cartridge type is correct.

- 4. Insert the test cartridge
 - a. Ensure the correct operator ID is entered.
 - b. Check that you scanned the QR code of the cartridge to be inserted
 - c. Double check whether you are using the test cartridge for the correct target analyte.
 - d. Before inserting the cartridge, ensure that you are not using a used one.
 - e. When the error message, **"Please contact the system administrator"** is displayed after inserting the cartridge, stop the process and contact the administrator to resolve the issue.



- 5. Inject the positive control solution
 - a. Swirl or flick the bottom of the tube for 15 seconds to ensure thorough mixing.
 - b. Add 2-3 drops of the positive control solution into the sample inlet of the test cartridge within two minutes.

c____ouch the "OK" (_____) button.

Discard the used cartridge in the appropriate biohazard container.

- a. Refer to the images below to eject the cartridge from the tray. Discard the SampinuteTM COVID-19 Antigen MIA test cartridge after use as required by internal quality control procedures and in accordance with local, state and federal regulations or accreditation requirements.
- b. Touch the **"OK"** (**DE**) button.



- 7. Test cartridge QR code scan
 - a. Scan the QR code on the cartridge pouch with the barcode scanner
 - b. After scanning the QR code, the test level, cartridge type and LOT will display on the screen.

Note: The barcode scanner has to be purchased separately. If the QR code recognition fails, scan a new cartridge pouch. Please check if the test marker is correct.

- 8. Insert the test cartridge
 - a. Ensure that the correct operator ID is entered before inserting the cartridge.
 - b. Check that you scanned the QR code of the cartridge to be inserted.
 - c. Double check whether you are using the test cartridge for the correct target analyte.



- d. Before inserting the cartridge, ensure that you are not using a used one.
- e. When the error message, "Please contact the system administrator" is displayed on the screen after inserting the cartridge, stop the process and contact the administrator to resolve the issue

Warning: Cartridges should not be re-used. Cartridges should be immediately used after specimen has been added and then discarded into an appropriate biohazard container.

- 9. Negative control solution injection
 - . Swirk or flick the bottom of the tube for 15 seconds to ensure thorough mixing.
 - b. Add 2-3 drops of the negative control solution into the sample inlet within two minutes.
 - c. Touch the "QK" (
- 10. Check the result of the QC Te
 - a. When the test is completed, the result of the QC test is displayed on the screen.
 - b. Check the result and remove the cartridge from the tray.
 - c. Touch the "DONE" (^{DONE}) button → Return to the home screen.

Note: If the test results show "Pass", then successful operation of the test cartridge is indicated. If test results show "Fail", then the accuracy of the test cannot be verified, and the test needs to be conducted again or the administrator should be contacted

- 11. Discard the used cartridge.
 - a. Refer to the images below to eject the cartridge from the t
 - b. Discard the Sampinute[™] COVID-19 Antigen MIA test cartridge after use as required by internal quality control procedures and in accordance with local, state and federal regulations or accreditation requirements for biohazard waste.



c. Touch the **"DONE"** (**DONE**) button.





DONE

SAMPLE COLLECTION AND HANDLING SAMPLE COLLECTION

Nasopharyngeal Swab Specimen



Use only synthetic fiber swabs with plastic or wire shafts. Do not use calcium alginate swabs or swabs with wooden shafts, as they may contain substances that inactivate some viruses.

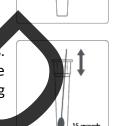
Insert the sterile nasal swab through the nostril parallel to the palate (not upwards) until resistance is encountered or the distance is equivalent to that from the ear to the nostril of the patient, indicating contact with the nasopharynx. The swab should reach depth equal to the distance from nostrils to the outer opening of the ear. Gently rub and roll the swab. Leave the swab in place for several seconds to absorb secretions. Slowly remove the swab while rotating it.

Specimens can be collected from both sides using the same swab, but it is not necessary to collect specimens from both sides if the minitip is saturated with fluid from the first collection. If a deviated septum or blockage creates difficulty in obtaining the specimen from one nostril, use the same swab to obtain the specimen from the other nostril.

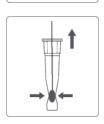
A Swab Test Procedure in Reagent Solution Tube

Place swabs immediately and directly into sterile tubes containing the reagent solution. To collect a sample:

- 1. Aseptically take off and discard the cap from the tube.
- 2. Insert the swab into the tube. Swirl the swab in the solution for 15 seconds. Plunge the swab in vertical motion for at least another 15 seconds in the solution. Ensure that the solution does not splash out of the tube when swirling and plunging.



3. Remove and discard the swab while pressing against the sides of the tube to ensure maximum amount of liquid has been squeezed from the swab.



4. Assemble and press the tip firmly onto the reagent solution tube containing the specimen. Mix thoroughly by either flicking the bottom of the tube or swirling.



B Swab Test Procedure in Viral Transport Media

Place the swab immediately and directly into a tube of media in the Viral Transport System or Universal Transport Media System following their package instructions for use from their packaging inserted.

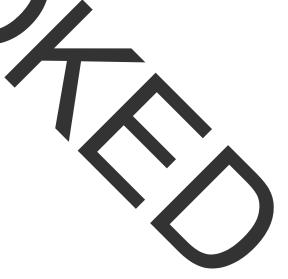
1. Swirl the swab in the solution for 15 seconds. Plunge the swab in vertical motion for at least another 15 seconds in the solution. Mix thoroughly by either flicking the bottom of the tube or swining. Ensure that the solution does not splash out of the tube when swirling and plunging.



2. If a vortex mixer can be used, vortex for at least 1 minute the collection tube to ensure thorough mixing.

Warning:

- 1. Do not use tips, tubes or caps taken from other products.
- 2. If frozen specimens were prepared, melt the frozen specimens completely before the test.



SAMPLE TRANSPORT AND STORAGE

The reagent solutions should be stored at room temperature (15-30°C, 59-86°F) upon testing. It is recommended that the specimens upon collection are processed and analyzed as soon as possible. The specimen would only be viable for processing for up to one hour.

For UVT, UTM, VTM and transport media prepared according to the CDC protocol for <u>SOP-DSR-052-05</u>, specimens can be stored at room temperature (15-30°C, 59-86°F) for up to 3 hours and at 2-8°C (36-46°F) for up to 48 hours after collection. If a delay in testing or shipping is expected, store specimens (either dry swab or VTM) at -70°C (-94°F) or below.

TEST PROCEDURE

Run the test using the Sampinute[™] Analyzer at a temperature range of 15-30°C (59-86°F). If the temperature is out of the range, a test cannot be run. When the battery level is 15% or lower, you cannot start the test. Fully charge the battery before running the test.

Expiration date: Check the expiration date on each individual test package or outer box before using. *Do not use any tests past the expiration date on the label.*

- 1. Wear protective gloves and then touch the "RUN TEST" button to start the test
 - a. Put on a clean pair of gloves first
 - b. Touch the "RUN TEST" button.
- 2. Scan the operator ID

a. Scan the operator ID with the barcode scanner or manually enter the operator ID using the keypad. Touch the **"OK"** (**EXE**) button only if entered manually.

3. Scan the patient code

a. Scan the patient code with the barcode scanner or manually enter the code using the keypad. Touch the **"OK"** (

b. The operator ID and the patient code are displayed on the screen. The screen subsequently proceeds to the screen for QR code scan.

4. Scan the QR code of the test cartridge

a. Scan the QR code on the cartridge pouch with the barcode scanner.

b. After scanning the QR code, the cartridge type and LOT code will be displayed on the screen, and the predetermined "cut-off" value of the cartridge (shown in page 28) is also

recognized, which is unchangeable and varies depending on the lot. (The cut-off value for each lot is pre-determined *via* selection and analysis of a few sample cartridges of each lot. The cut-off value defines the threshold signal for distinguishing negative and positive results.)

Subsequently, the screen proceeds to cartridge insertion.

(The barcode scanner has to be purchased separately. If the QR code recognition fails, scan a new cartridge pouch. After scanning, please ensure that the cartridge type displayed on screen is Sampinute[™] COVID-19 Antigen MIA.)

5. Test cartridge insertion

a. Take out the Sampinute™ COVID-19 Antigen MIA test cartridge from the aluminum pouch.

b. Insert the test cartridge to the tray following instructions on the screen.

c. When the test cartridge is inserted in the correct position, the screen automatically proceeds to the sample injection stage.



Note:

- Make sure to check whether the correct operator ID and patient codes are entered before scanning the QR code.
- Ensure that the correct test cartridge being used is the Sampinute[™] COWD-19 Antigen MIA
- Before inserting the cartridge, ensure that you are not using an already used one
- When the error message, "Please contact the system administrator" is displayed after inserting the cartridge, stop the process and contact the administrator to resolve the issue.

Warning: Cartridges should not be re-used. Cartridges should be immediately used after specimen has been added and then discarded into an appropriate biohazard container

6. Inject sample to the test cartridge using the reagent solution included in the package

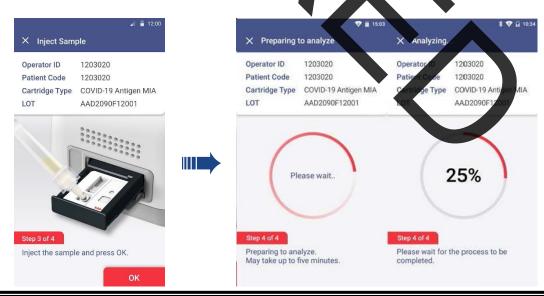
a. Prepare the sample according to "Sample Collection – *Nasopharyngeal Swab Specimen"*.

(If a vortex mixer can be used, vortex for at least 1 minute the collection tube to ensure thorough mixing.)

b. Ensure that the specimen is mixed thoroughly by either flicking the bottom of the tube

or swirling.

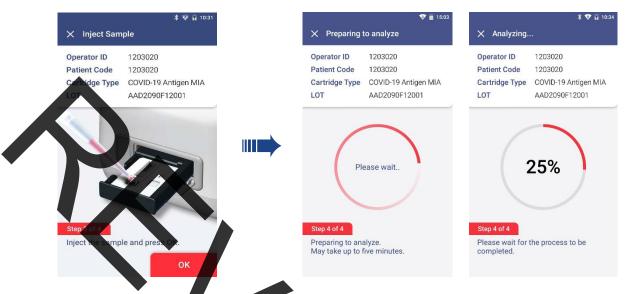
- c. Add 2-3 drops of the sample into the inlet of the Sampinute[™] COVID-19 Antigen MIA test cartridge by inverting the tube and holding it vertically approximately an inch above the sample inlet, squeezing the bottom of the tube gently. (Injected sample needs to fill up the inlet of the cartridge, and excess volume can be used for further testing if required.) Add the sample within 5 minutes after inserting a cartridge.
- d. Touch the "OK" (
- 7. If using validated transport media, inject sample to the test cartridge.
 - a. Prepare the sample according to "Sample Collection Nasopharyngeal Swab Specimen"
 - b. Set the volume of the micropipette at 50μ L and attach disposable tip.
 - c. Remove cap on the collection tube.
 - d. Withdraw the sample in the collection tube with the micropipette. Check that the pipette tip does not contain bubbles:
 - e. Draw 50 μ L of the specimen and insert it into the inlet of the cartridge.
 - f. Touch the "OK" (
- 8. Process Analysis and Test Results
 - a. The progress of the analysis is shown as a percentage.
 - 1) The first screen on the left displays the image below instructing to inject the reagent solution using the reagent tube. The next two screens display the analyzer's progress in processing the specimen using the reagent solution.



Sampinute[™] COVID-19 Antigen MIA

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2) The first screen displays the image below instructing to inject sample with pipette using transport media. The next two screens display the analyzer's progress in processing the specimen using reagent solution.



3) The screen displays images showing both the reagent tube and the pipetted VTM.

b. When the analysis is completed, the result of the measurement is displayed on the screen with the patient code, operator ID, cartridge type and the LOT, and the tray at the bottom of the device is ejected.

- c. Remove the used test cartridge from the tray following **STEP 8**.
- d. Touch the **"DONE"** (DONE") button.

Note:

- Do not turn off or unplug the power adaptor while a test is in progress
- 9. Discard the used cartridge in the appropriate biohazard container.
 - Refer to the images below to eject the cartridge from the tray.
 - Discard the Sampinute[™] COVID-19 Antigen MIA test cartridge with any components used after use as required by internal quality control procedures and in accordance with local, state and federal regulations or accreditation requirements.



10. Test Interpretation

a. Results of past tests can be viewed by touching the **"Test Results"** button on the home screen.

- b. All test results are displayed in the order from the newest to oldest scan.
- c. You can select specific results to view details.
- d. If a printer is connected, you can print the results by clicking the print icon.

Result	Interpretation
Positive • Negative	COVID-19 Positive (+) Repeat testing does not need to be performed if patients have a positive result at any time. A positive test result means that the virus that causes COVID-19 was detected in the sample, and it is very likely the individual has COVID-19 and is contagious. Please contact the patient's doctor/primary care physician (if applicable) and the local health authority immediately and instruct your patient to adhere to the local guidelines regarding self-isolation. There is a very small chance that this test can give a positive result that is incorrect (a false positive). Positive results do not rule out bacterial infection or co-infection with other viruses. The agent detected may not be the definite cause of disease. Individuals who test positive with the Sampinute™ COVID-19 Antigen MIA should self-isolate and seek follow up care with their physician of healthcare provider as additional confirmatory testing with a molecular test for positive results may also be necessary, if there is a low likelihood of COVID-19, such as in individuals without known exposures to COVID-19 or residing in communities with low prevalence of infection.



Warning: If refrigerated cartridges are used, ensure that they (including the pouch intact) are at room temperature (15-30°C, 59-86°F) for at least 30 minutes before using them for analysis on the Sampinute[™] Analyzer. Analyzing the cartridge before the 30-minute point of room

temperature incubation period, may yield false results. The user should never open the aluminum pouch, exposing the test cartridge to the ambient environment until ready for immediate use.

Repeat testing is needed to improve test accuracy. Please follow the table below when interpreting test results.

Status on first day of Testing	First Result Day 1	Second Result Day 3	Third Result Day 5	Interpretation
X	Positive	N/A	N/A	Positive for COVID-19
With Symptoms	Negative	Positive	N/A	Positive for COVID-19
	Negative	Negative	N/A	Negative for COVID-19

Results should be considered in the context of an individual's recent exposures, history, and the presence of clinical signs and symptoms consistent with COVID-19

LIMITATIONS

- The performance of this test was established based on the evaluation of a limited number of clinical specimens collected in August, 2020. The clinical performance has not been established for all circulating variants but is anticipated to be reflective of the prevalent variants in circulation at the time and location of the clinical evaluation. Performance at the time of testing may vary depending on the variants circulating, including newly emerging strains of SARS-CoV-2 and their prevalence, which change over time.
- There is a higher chance of false negative results with antigen tests than with laboratorybased molecular tests due to the sensitivity of the test technology. This means that there is a higher chance this test will give a false negative result in an individual with COVID-19 as compared to a molecular test, especially in samples with low viral load.
- All COVID-19 antigen test negative results are presumptive and confirmation with a molecular assay may be necessary.
- If the patient continues to have symptoms of COVID-19, and both the patient's first and second tests are negative, the patient may not have COVID-19, however additional follow-up may be needed.
- If the test is positive, then proteins from the virus that causes COVID-19 have been found in the sample and the individual likely has COVID-19.
- Incorrect test results may occur if a specimen is incorrectly collected or handled.
- This test detects both viable (live) and nonviable SARS-CoV-2. Test performance depends on the amount of virus (antigens) in the sample and may or may not correlate with viral culture results performed on the same sample.
- The contents of this kit are to be used for the qualitative detection of SARS-CoV-2 spike proteins from nasopharyngeal swabs. Other specimen types, such as nasal swabs, have not been validated.
- This test detects both viable (live) and non-viable SARS-CoV-2. Test performance depends on the amount of virus (antigens) in the sample and may or may not correlate with viral culture results performed on the same sample.
- A negative test result may occur if the level of antigens in a sample is below the detection limit of the test or if the sample was collected or transported improperly.
- Failure to follow the Test Procedure may adversely affect test performance and/or invalidate the test result.
- Test results must be evaluated in conjunction with other clinical data available to the physician.
- Positive test results do not rule out co-infections with other pathogens.
- Negative test results are not intended to rule in other non-SARS-CoV-2 viral or bacterial infections.
- Clinical performance was evaluated with frozen samples, and test performance may be Sampinute[™] COVID-19 Antigen MIA BMD013BMUS Rev.0A

different with fresh samples.

- If the differentiation of specific coronaviruses and strains is needed, additional testing, in consultation with state or local public health departments, is required.
- The amount of antigen in a sample may decrease as the duration of illness increases. Specimens collected after 5 days are more likely to be negative compared to RT-PCR.

CONDITIONS OF AUTHORIZATION FOR THE LABORATORY

The Sampinute[™] COVID-19 Antigen MIA Letter of Authorization, along with the authorized Fact Sheet for Healthcare Providers, the authorized Fact Sheet for Patients, and authorized labeling are available on the FDA website: <u>https://www.fda.gov/medical-devices/coronavirus-disease-2019-covid-19-emergency-use-authorizations-medical-devices/in-vitro-diagnostics-euas</u>.

To assist clinical laboratories using the Sampinute[™] COVID-19 Antigen MIA ("your product" in the conditions below), the relevant Conditions of Authorization are listed below:

- Authorized laboratories¹ using your product will include, with test result reports, all Fact Sheets. Under exigent circumstances, other appropriate methods for disseminating these Fact Sheets may be used, which may include mass media.
- Authorized laboratories using your product will use your product as outlined in the "Sampinute[™] COVID-19 Antigen MIA" Instructions for Use. Deviations from the authorized procedures, including the authorized instruments, authorized clinical specimen types, authorized control materials, authorized other ancillary reagents and authorized materials required to use your product are not permitted.
- Authorized laboratories that receive your product will notify the relevant public health authorities of their intent to run your product prior to initiating tests.
- Authorized laboratories using your product will have a process in place for reporting test results to healthcare providers and relevant public health authorities, as appropriate.
- Authorized laboratories will collect information on the performance of your product and report to DMD/OHT7-OIR/OPEQ/CDRH (via email: CDRH-EUA-Reporting@fda.hhs.gov), BBB Inc. (via website: www.bbbtech.com) and Celltrion USA, Inc. (via email: Sampinute@celltrion.com or via phone: (201) 988-4615) any suspected occurrence of false positive or false negative results and significant deviations from the established performance characteristics of your product of which they become aware.
- All operators using your product must be appropriately trained in performing and interpreting the results of your product. Use appropriate personal protective equipment when handling this kit, and use your product in accordance with the labeling.
- Celltrion USA, Inc., BBB Inc., and authorized laboratories using your product will ensure that any records associated with this EUA are maintained until otherwise notified by the FDA. Such records will be made available to the FDA for inspection upon request.

¹ The letter of authorization refers to, "Laboratories certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA), 42 U.S.C. §263a, that meet requirements to perform high or moderate complexity tests" as "authorized laboratories."

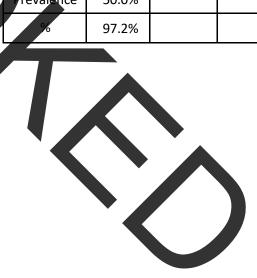
CLINICAL PERFORMANCE

[Study 1]

Positive clinical specimens in 3mL of Becton Dickinson Universal Viral Transport System were used for clinical validation. The clinical performance of Sampinute[™] COVID-19 Antigen MIA was established with a study using NPS specimens, which have been previously characterized and were supplied frozen by a biorepository in the United States. All specimens were evaluated with an EUA RT-PCR assay and confirmed to be positive. Specimens were tested by a CAP accredited laboratory by trained laboratory professionals.

In the clinical performance, seventy-two (72) samples were measured, resulting in a sensitivity of 94.4% (34/36) and a specificity of 100.0% (36/36).

	Results	alts of Reference Device (RT-PCR)					95%	CI
		POS	NEG	Total	Sensitivity	94.4%	80.0%	99.0%
Sampinute™	POS	34	0	34	Specificity	100.0%	88.0%	100.0%
COVID-19 Antigen MIA	NEG	2	36	38	PPV	100.0%	89.9%	100.0%
	Total	36	36	72	NPV	94.7%	82.7%	98.5%
					Prevalence	50.0%		
					%	97.2%		



[Study 2]

Positive clinical specimens with reagent solution were also used for clinical validation. The clinical performance of Sampinute[™] COVID-19 Antigen MIA was established with a study using dry NPS specimens. These specimens were prospectively collected from subjects in the United States as part of a biorepository enrolling positive and negative SARS-CoV-2 specimens within five days of symptom onset. All specimens were evaluated with an EUA RT-PCR assay and confirmed to be positive. The specimens are delivered from the biorepository and stored below -70°C. 5 positive and 5 negative specimens were tested by a CAP accredited laboratory by trained laboratory professionals, and 95 negative specimens were tested at a BL2-certified laboratory by trained operators.

In the clinical performance, 105 samples were measured, resulting in a sensitivity of 100.0% (5/5) and a specificity of 100.0% (100/100).

	Results of Reference Device (RT-PCR)						95%	6 CI
		POS	NEG	Total	Sensitivity	100.0%	56.6%	100.0%
Sampinute™ COVID-19	POS	5	0	5	Specificity	100.0%	96.3%	100.0%
Antigen MIA	NEG	0	100	100	PPV	100.0%	56.6%	100.0%
	Total	5	100	105	NPV	100.0%	96.3%	100.0%

[Clinical Performance: Prospective Serial Testing Study at National Institutes of Health] A prospective clinical study was conducted between January 2021 and May 2022 as a component of the Rapid Acceleration of Diagnostics (RADx) initiative from the National Institutes of Health (NIH). A total of 7,361 individuals were enrolled via a decentralized clinical study design, with a broad geographical representation of the United States. Per inclusion criteria, all individuals were asymptomatic upon enrollment in the study and at least 14 days prior to it and did not have a SARS-CoV-2 infection in the three months prior to enrollment. Participants were assigned to one of three EUA authorized SARS-CoV-2 OTC rapid antigen tests to conduct serial testing (every 48 hours) for 15 days. If an antigen test was positive, the serial-antigen testing result is considered positive.

At each rapid antigen testing time point, study subjects also collected a nasal swab for comparator testing using a home collection kit (using a 15-minute normalization window between swabs). SARS-CoV-2 infection status was determined by a composite comparator method on the day of the first antigen test, using at least two highly sensitive EUA RT-PCRs. If results of the first two molecular test were discordant a third highly sensitive EUA RT-PCR test was performed, and the final test result was based upon the majority rule.

Study participants reported symptoms status throughout the study using the MyDataHelps app. Two-day serial antigen testing is defined as performing two antigen tests 36 – 48 hours apart. Threeday serial antigen testing is defined as performing three antigen tests over five days with at least 48 hours between each test.

Out of the 7,361 participants enrolled in the study, 5,609 were eligible for analysis. Among eligible participants, 154 tested positive for SARS-CoV-2 infection based on RT-PCR of which 97 (62%) were asymptomatic on the first day of their infection, whereas 57 (39%) reported symptoms on the first day of infection.

Performance of the antigen test with serial testing in individuals is described in Table below.

Table. Data establishing PPA of COVID-19 antigen serial testing compared to the molecular comparator single day testing throughout the course of infection with serial testing. Data is from all antigen tests in study combined.

		SYMPTOMATIC ON FIRST DAY OF TESTING				
DAYS AFTER FIRST PCR POSITIVE TEST RESULT	Ag Positive / PCR Positive (Antigen Test Performance % PPA)					
	1 Test	2 Tests	3 Tests			
0	34/57 (59.6%)	47/51 (92.2%)	44/47 (93.6%)			
2	58/62 (93.5%)	59/60 (98.8%)	43/43 (100%)			
4	55/58 (94.8%)	53/54 (98.1%)	39/40 (97.5%)			
6	27/34 (79.4%)	26/33 (78.8%)	22/27 (81.5%)			
8	12/17 (70.6%)	12/17 (70.6%)	7/11 (63.6%)			
10	4/9 (44.4%)	37 (42.9%)				

1 Test = one (1) test performed on the noted days after first PCR positive test result. Day 0 is the first day o documented infection with SARS-CoV-2.

2 Tests = two (2) tests performed an average of 48 hours apart. The first test performed on the indicated day and the second test performed 48 hours later.

3 Tests = three (3) tests performance an average of 48 hours apart. The first test performed on the indicated day, the second test performed 48 hours later, and a final test performed 48 hours after the second test.

ANALYTICAL PERFORMANCE

a) Limit of Detection

Materials: We conducted the testing with heat inactivated SARS-CoV-2 strain isolated from

positive NPS specimens obtained from a biorepository (with a titer of 1.2×10^4 TCID₅₀/mL). The specimen was used as the starting point for preparing serial dilution samples. The material was supplied frozen.

The purpose of the LoD studies is to determine the lowest detectable concentration of SARS- CoV-2. The LoD was determined by limiting dilution studies. Dilutions were carried out with negative clinical matrix. For each test, 50 µL of the diluted sample was added to a sterile nasal swab before conducting the assay based on the Instruction For Use of the Sampinute[™] COVID-19 Antigen MIA test cartridge.

The test consisted of two steps for LoD determination:

1. Tentative LoD Confirmation

The cartridges were first tested in a series of 10-fold dilutions (n=3) to determine the dilution concentration that produced a 100% detection rate (3/3) with the subsequent dilution producing a detection rate of less than 100%.

Based on this testing, the concentration chosen was 1.2×10^2 TCID₅₀/mL.

2. LoD Confirmation

A total of forty (40) replicates were then further tested in a series of 2-fold dilutions (twenty

(20) replicates with two reagent lots for each dilution) to determine the minimum dilution concentration at which at least 95% of the true positive specimens were tested positive for a given target. $1.2 \times 10^2 \text{ TCID}_{50}/\text{mL}$ chosen from the "Tentative LoD Confirmation" step was used as the starting point for the dilution.

Based on this testing, the LoD was concluded to be 3.0×10^{1} TCID₅₀/mL, equating to 1.5 TCID₅₀/Swab.

b) Cross-reactivity and c) Microbial Interference

Cross-reactivity of the cartridges was evaluated by testing various viruses (17) and microorganisms (11 including pooled human nasal wash) that potentially may cross-react with the Sampinute[™] COVID-19 Antigen MIA using the reagent solutions. The final concentration of each organism is documented in the table below. Each microorganism and virus was prepared in the absence and presence of SARS-CoV-2 at 3xLoD concentration. Both the cross-reactivity and microbial interference studies were conducted in triplicate.

Organism	Final Concentration Tested	Cross-Reactivity Results (Count)	Interference Result (Count)
Coronavirus 229E	4.0x10 ⁵ PFU/mL	0/3	3/3
Coronavirus OC43	9.8x10 ⁵ PFU/mL	0/3	3/3
Coronavirus NL63	1.0 × 10⁵ PFU/mL	0/3	3/3
SARS-CoV-1	2.94 × 10 ⁶ U/mL	0/3	3/3
MERS	3.20 × 10 ⁵ TCID ₅₀ /mL	0/3	3/3
Adenovirus type 1	1.4 × 10 ⁵ PFU/mL	0/3	3/3
		ん	

Cross-Reactivity: Sampinute[™] COVID-19 Antigen MIA - Wet Testing

Parainfluenza virus 1	1.13 × 10 ⁵ PFU/mL	0/3	3/3
Parainfluenza virus 2	1.18 × 10 ⁶ PFU/mL	0/3	3/3
Parainfluenza virus 3	1.51 × 10 ⁶ PFU/mL	0/3	3/3
Parainfluenza vicus 4	5.42 × 10 ⁵ PFU/mL	0/3	3/3
Enterovirus	5.80 × 10 ⁵ PFU/mL	0/3	3/3
Rhinovirus	3.19 ×10 ⁵ PFU/mL	0/3	3/3
Respiratory Syncytial virus A	6.20 × 10 ⁵ PFU/mL	0/3	3/3
Human metapneumovirus	1.71 × 10 ⁵ PEU/mL	0/3	3/3
Coronavirus HKU1	1.0 × 10 ⁶ U/mL	0/3	3/3
Influenza A	4.0 × 10 ⁵ PFU/mL	0/3	3/3
Influenza B	4.9 × 10 ⁵ PFU/mL	0/3	3/3
Candida albicans	3.23 × 10 ⁶ CFU/mL	0/3	3/3
Chlamydia pneumoniae	2.0 × 10 ⁷ TCID ₅₀ /mL	0/3	3/8
Haemophilus influenzae	2.07 × 10 ⁶ CFU/mL	0/3	3/3
Pooled human nasal wash	100%	0/3	3/3
Mycoplasma pneumoniae	1.05 × 10 ⁶ CFU/mL	0/3	3/3
Streptococcus pneumoniae	1.05 × 10 ⁶ CFU/mL	0/3	3/3

Bordetella pertussis	2.55 × 10 ⁶ CFU/mL	0/3	3/3
Legionella pneumophila	3 × 10 ⁶ CFU/mL	0/3	3/3
Streptococcus pyogenes	2 × 10 ⁶ CFU/mL	0/3	3/3
Streptococcus aureus	2 × 10 ⁶ CFU/mL	0/3	3/3
Streptococcus epidermidis	2 × 10 ⁶ CFU/mL	0/3	3/3

* Testing was performed in triplicate.

** Each microorganism was diluted in BD[™] Universal Viral Transport System.

The results show reither observed cross-reactivity nor microbial interference with the organisms at the concentrations tested.

Of all the tests recommended for cross-reactivity, the remaining two that were not included in the wet testing were analyzed in silico via Basic Local Alignment Search Tool managed by National Center for Biotechnology Information to determine the likelihood of leading to cross- reactivity.

- *Pneumocystis jirovecii*: 45.4% homology was found for one particular segment of sequence across 9 % of the sequence. Thus, a very low likelihood of cross-reactivity exists between the pathogens, however, cross-reactivity cannot be ruled out.
- *Mycobacterium tuberculosis*: No sequence homology was found between SARS-CoV-2 and *M. tuberculosis,* however, cross-reactivity cannot be ruled out.
- Human coronavirus HKU1: The protein sequences analyzed between the spike glycoproteins of SARS-CoV-2 and HKU1 show 29% homology. Hence, cross-reactivity is highly unlikely to occur between SARS-CoV-2 and HKU1, however, cross-reactivity cannot be ruled out.

d) Endogenous interference study

A total of 17 potentially interfering substances, either naturally present in respiratory specimens or artificially introduced into the nasal cavity or nasopharynx, were tested in this study to evaluate the susceptibility of the Sampinute[™] COVID-19 Antigen MIA test cartridges to potentially interfering substances when elevated levels of these substances were added to SARS-CoV-2 positive specimens at 3xLoD or negative samples in BD[™] Universal Viral Transport System.

The potentially interfering substances were spiked into the SARS-CoV-2 positive or negative samples at elevated levels. For each test, a sterile nasal swab was swirled in the diluted samples before conducting the assay based on the Instruction For Use of the Sampinute[™] COVID-19 Antigen MIA test cartridge.

Concentrations of potentially interfering substances were tested, and the study results are summarized in the table below.

Substance	Concentration	SARS-CoV-2 Positive Sample	SARS-CoV-2 Negative Sample	
Whole Blood	4%	3/3	0/3	
Mucin (Bovine submaxillary gland)	0.5%	3/3	0/3	
Tamiflu (Oseltamivir)	5 mg/mL	3/3	0/3	
Mupirocin	10 mg/mL	3/3	0/3	
Tobramycin	4 μg/mL	3/3	0/3	
Sore Throat Phenol Spray	15% v/v	3/3	0/3	
Homeopathic Nasal Spray (Alkalol)	1:10 dilution	3/3	0/3	
Ricola (Menthol)	1.5 mg/mL	3/3	0/3	
Sucrets (Dyclonine/Menthol)	1.5 mg/mL	3/3	0/3	
Chloraseptic (Menthol/Benzocaine)	1.5 mg/mL	3/3	0/3	
CVS Nasal Drops (Phenylephrine)	15% v/v	3/3	0/3	
Afrin (Oxymetazoline)	15% v/v	3/3	0/3	
CVS Nasal Spray (Cromolyn)	15% v/v	3/3	0/3	
Naso GEL (NeilMed)	5% v/v	3/3	0/3	
Zicam	5% v/v	3/3	0/3	

Potentially Interfering Substances Study: Sampinute™ COVID-19 Antigen MIA

Substance	Concentration	SARS-CoV-2 Positive Sample	SARS-CoV-2 Negative Sample
Fisherman's Friend	1.5 mg/mL	3/3	0/3
Fluticasone Propionate	5% v/v	3/3	0/3

The study results show no interference with the Sampinute[™] Analyzer and the Sampinute[™] COVID-19 Antigen VIA test cartridges observed in the presence of potentially interfering substances at the concentrations tested in this study.

e) High-dose hook effect

No high-dose hook effect was observed up to 3 × 10⁵ TCID₅₀/mL of SARS-CoV-2 when measured with the Sampinute[™] Analyzer and Sampinute[™] COVID-19 Antigen MIA.

f) Matrix equivalency

SARS-CoV-2 strain was formulated in four (4) negative matrices: BD universal viral transport system (UVT), COPAN universal transport medium (UTM), Centers for Disease Control and Prevention VTM (<u>DSR-052-05</u>), and the reagent solution with less than 0.1% sodium azide (contained in Reagent Tube) at a final concentration of 1 x LoD, 2 x LoD, 3 x LoD. In addition, negative samples were also prepared and tested.

The transport media systems containing the contrived samples were stored at 2 - 8°C (36 - 46°F) and permitted to equilibrate to room temperature 30 minutes before testing. Each transport media was tested in three (3) replicates and 3 Lots.

	BD (All	Lots)		COPAN (All Lots)	I	CDC (A	ll Lots)		Reagent (All I		ı
Sample	Agreement (Count)	Mean (µA)	%CV									
3.0x LoD	100% (15/15)	11.78	5.01	100% (15/15)	10.93	6.47	100% (15/15)	10.30	5.32	100% (15/15)	11.65	6.28
2.0x LoD	100% (15/15)	8.76	5.26	100% (15/15)	9.65	6.30	100% (15/15)	8.84	4.57	100% (15/15)	9.73	6.30
1.0x LoD	100% (15/15)	5.67	7.12	100% (15/15)	6.17	6.50	100% (15/15)	5.98	6.06	100% (15/15)	5.71	6.60
Negative	100% (15/15)	3.49	8.55	100% (15/15)	3.62	9.60	100% (15/15)	3.75	9.57	100% (15/15)	3.58	8.89

Matrix Equivalency Study: Sampinute™ COVID-19 Antigen MIA

All four (4) matrices (BD UVT, COPAN UTM, VTM made according to the CDC SOP (<u>DSR-052-05</u>), and the reagent solution with less than 0.1% sodium azide) show the same results with %CV of less than 10%.

ASSISTANCE

If you have any questions regarding the use of this product or if you want to report a test system problem, please contact BBB Inc. (*via* website: <u>www.bbbtech.com</u> or *via* phone: +82-70-4407-8808 or +82-2-565-9653) or Celltrion USA, Inc. (*via* email: Sampinute@celltrion.com, or *via* phone: (201) 988-4615). Test system problems may also be reported to the FDA through the MedWatch medical products reporting program (phone: 800.FDA.1088; fax: 800.FDA.0178; http://www.fda.gov/medwatch).

SYMBOLS



Sampinute[™] COVID-19 Antigen MIA

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ⁱⁱ Baker S., Frias L., and Bendix A. Coronavirus live updates: More than 92,000 people have been infected and at least 3,100 have died. The US has reported 6 deaths. Here's everything we know. Business Insider, March 03, 2020.

^{III} How COVID-19 Spreads. U.S. Centers for Disease Control and Prevention (CDC). 2 April 2020.

^{iv} Clinical and Laboratory Standards Institute. Viral Culture; Approved Guidelines. CLSI document M41-A [ISBN1562386239] Clinical and Laboratory Standards Institute, 940 West Valley Road, Suite 1400, Wayne, Pennsylvania 19087-1898, USA 2006.

SAM-IFU-R01-202303

SAMPINUTE

COVID-19 Antigen MIA

in vitro Diagnostic Use Sampinute[™] COVID-19 Antigen MIA

Quick Reference Guide

BMD013BQUS RevOC Date 2023-03

Read all instructions carefully before performing the t Failure to follow the instructions may result in inaccurate test result For in vitro diagnostic use For prescription use only For use under the Emergency Use Authorization (EUA) only



Test Cartridge

Reagent Tube and Tip

Cleaning

Clean the analyzer periodically with a soft and dry cloth. Do not use highly corrosive cleaning solutions or chemicals, or a cleaning tissue containing chemical substances that may damage the device. Wipe the tray carefully with an alcohol-moistened swab if needed.

*Make sure to turn off when cleaning the device.

*Avoid contact with the electrode when cleaning as it is a sensitive part.

The Sampinute[™] COVID-19 Antigen MIA is a magnetic force-assisted electrochemical sandwich immunoassay for use with the Smapinute[™] Analyzer, intended for the qualitative detection of the receptor binding domains (RBDs) spike proteins from SARS-CoV-2 in nasopharyngeal swab specimens directly collected or collected in either BD Universal Viral Transport Media, Copan UTM-RT or CDC's formulation of VTM from symptomatic individuals who are suspected of COVID-19 by their healthcare provider within the first five (5) days of symptom onset when serial tested at least twice over three days with at least 48 hours between tests.

Results are for the identification of the receptor-binding domain (RBD)s of SARS-CoV-2 spike protein antigens. Antigen is generally detectable in nasopharyngeal swab specimens during the acute phase of infection. Positive results indicate the presence of viral antigens, but clinical correlation with patient history and other diagnostic information is necessary to determine infection status. Positive results do not rule out bacterial infection or co-infection with other viruses. The agent detected may not be the definitive cause of disease. Laboratories within the United States and its territories are required to report all results to the appropriate public health authorities.

All Negative results are presumptive and confirmation with a molecular assay, if necessary, for patient management may be performed. Negative results do not rule out SARS-CoV-2 infection and should not be used as the sole basis for treatment or patient management decisions, including infection control measures such as isolating from others and wearing masks. Negative results should be considered in the context of a patient's recent exposures, history and the presence of clinical signs and symptoms consistent with COVID-19.

The instructions for use in this Quick Reference Guide do not provide sufficient information to perform the test. Therefore, before performing the test, read both the Sampinute[™] Analyzer User Manual and the Sampinute[™] COVID-19 Antigen MIA test

cartridge insert thoroughly.

IVD R

Collection Tube

The Sampinute[™] Analyzer should be operated at room temperature between 15°C and 30°C (59°F and 86°F) and 10% - 80% relative humidity. The reagent solutions should be stored at room temperature (15-30°C, 59-86°F) upon testing.

Specimens can only be processed within one hour of collection. It is therefore recommended that the specimens are processed and analyzed as soon as possible. For UVT, UTM, VTM and transport media prepared according to the CDC protocol for SOP-DSR-052-05, specimens can be stored at room temperature (15-30°C, 59-86°F) for up to 3 hours and at 2-8°C (36-46°F) for up to 48 hours after collection. If a delay in testing or shipping is expected, store specimens (either dry swab or VTM) at -70°C (-94°F) or below. Check the expiration date on the outer test kit package and each individual test package before using.

pinute[™] COVID-19 Antigen MIA is intended for use by trained clinical The 🦨 ersonnel specifically instructed on in vitro diagnostic procedures. The VID-19 Antigen MIA is only for *in vitro* diagnostic use under the Food pinute d Drug Admini tration's Emergency Use Authorization. This product has not been cleared or appr ved.

Preparin the sample

mple before Running the Test. Collect a patient swal

Specimen Collection and Handling: Proper specimen collection and handling of nasal rabs is required to ensure accurate results (refer to Sampinute[™] COVID-19 Antigen test cartridge insert). Additional training or guidance is recommended if operators are not experienced with specimen collection and handling procedures.

Option 1 – Sv edure in Reagent Solution Tube:

1 Aseptically take off and dise the cap from the tub

2

Insert the swab into the tube. Swirl the swab solution for 15 seconds. Plunge the swab ertical motion for at least another 15 seconds in the solution. Ensure that the solution does not splash out of the tube when swirling and plunging.

3

Remove and discard the swab while pressing against the sides of the tube to ensure maximum amount of liquid has been squeezed from the swab.

4

Assemble and press the tip firmly onto the reagent solution tube containing the specimen. Mix thoroughly by either flicking the bottom of the tube or swirling.

Option 2 - Swab Test Procedure in Viral Transport Media: Do not use tips, tubes or caps taken from other products. If frozen specimens were prepared, melt the frozen specimens completely before the test.

1

Open the cap of the transport media tube.

2

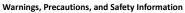
Swirl the swab in the solution for 15 seconds. Plunge the swab in vertical motion for at least another 15 seconds in the solution. Mix thoroughly by either flicking the bottom of the tube or swirling. Ensure that the solution does not splash out of the tube when swirling and plunging.

3



Check that the transport media tube cap is closed.

If a vortex mixer can be used, vortex for at least 1 minute the collection tube to ensure thorough mixing.



All components including the package can be disposed of as Biohazard waste. Refer to the product safety data sheet for information regarding risk, safety, and disposal available at www.celltrion.com. Follow all basic precautions needed for handling chemicals and reagents within the laboratory and proper laboratory safety techniques at all times when handling SARS-CoV-2 patient specimens. Patient swabs, used test cartridges, pipette tips, transport media collection tubes and reagent solution tubes should be regarded as potentially infectious and handled cautiously. Local regulations accreditation requirements should be followed to establish proper handling and osal methods. Sources of the components are certified as free from infectious or còr pious material. Still, the components should be treated as potentially infectious. Refer to the CDC Interim Guidelines for Collecting, Handling, and Testing Clinical from Persons for Coronavirus Disease 2019 (COVID-19) Speciment c.gov/coronavirus/2019-ncov/lab/guidelines-clinicalhttps.

the USA, this p duct has not been FDA cleared or approved, but has been authorized by FDA under an Emergency Use Authorization (EUA) for use by authorized laboratories certified under the CLIA that meet the requirements to perform moderate ty tests. This product has been authorized only for the detection of or high complea APS-CoV-2, not for any other viruses or pathogens. The emergency use oteins from is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostic tests for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.

Serial testing should be performed in individuals with negative results at least twice over three days (with 48 hours between tests) for symptomatic individuals. You may need to purchase additional tests to perform this serial (repeat) testing.











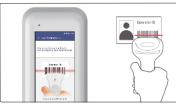




Running the Test

1. Touch 'RUN TEST' to start the test.

2. Scan operator ID with barcode scanner or enter via keypad.



3. Scan patient code with barcode scanner or enter via keypad.



4. Scan QR code on cartridge pouch with barcode scanner. Open pouch to take out test cartridge.



5. Remove the aluminum tape attached on top of the cartridge. Insert the test cartridge onto the tray according to instructions on the screen.



6. Prepare a test sample and inject it (either 1-2 drops with reagent tube or 50µL with pipette) according to the Sampinute[™] Analyzer User manual. Touch 'OK' to initiate analysis.

<image><text><text>

Test Interpretation COVID-19 Positive (+):

You do not need to perform repeat testing if you have a positive result at any time.

A positive test result means that the virus that causes COVID-19 was detected in the sample, and it is very likely the individual has COVID-19 and is contagious. Please contact the patient's doctor/primary care physician (if applicable) and the local health authority immediately and instruct your patient to adhere to the local guidelines regarding self-isolation. There is a very small chance that this test can give a positive result that is incorrect (a false positive).

Positive results do not rule out bacterial infection or co-infection with other. The agent detected may not be the definitive cause of disease.

COVID-19 Negative (-):

To increase the chance that the negative result for COVID-19 is accurate, you shot • Test again in 48 hours if the individual has symptoms on the first day of testing.

A negative test result indicates that the virus that causes COVID-19 was not detected in the sample. A negative result does not rule out COVID-19. There is a higher chance of false negative results with antigen tests compared to laboratory-based tests such as PCR tests. If the test is negative but COVID-19-like symptoms, e.g., fever, cough, and/o shortness of breath continue, follow up testing for SARS-COV-2 with a molecular test or testing for other respiratory disease should be considered. If applicable, seek follow up care with the primary health care provider.

All negative results are presumptive and confirmation with a molecular assay may be necessary if there is a high likelihood of SARS-CoV-2 infection, such as in an individual with a close contact with COVID-19 or with suspected exposure to COVID-19 or in communities with high prevalence of infection. Negative results do not rule out SARS-CoV-2 infection and should not be used as the sole basis for treatment or patient management decisions, including infection control measures, such as isolating from others and wearing masks.

Invalid: If an error message is displayed (as shown in the picture), the test is invalid. Re-test with a new swab and new test device.



Repeat testing is needed to improve test accuracy. Please follow the table below when interpreting test results.

Status on first day of Testing	First Result Day 1	Second Result Day 3	Third Result Day 5	Interpretation
	Positive	N/A	N/A	Positive for COVID-19
With Symptoms	Negative	Positive	N/A	Positive for COVID-19
	Negative	Negative	N/A	Negative for COVID-19

Results should be considered in the context of an individual's recent exposures, history, and the presence of clinical signs and symptoms consistent with COVID-19.

Quality Controls

Please perform the system check and the QC test prior to sample tests. You must carry out a Quality Control Test using the SampintueTM COVID-19 Antigen MIA Control Solutions to assess the performance of the SampintueTM Analyzer and SampinuteTM COVID-19 Antigen MIA test cartridges. If the Control Solutions do not perform as required, re-test using a new test cartridge – if problems persist contact BBB Inc. (*via* website: <u>www.bbbtech.com</u>) or Celltrion USA, Inc. (*via* email: <u>Sampintue@celltiron.com</u>), Monday through Friday, from 9:00 a.m. to 6:00 p.m, Korea Standard Time. This test has been authorized only for the detection of proteins from SARS-CoV-2.

Customer Service

If the instrument does not perform as expected, pleasse contact BBB Inc. (*via* website: <u>www.bbbtech.com</u>) or Celltrion USA, Inc. (*via* email: <u>Sampinuite@celltrion.com</u>).

Distributor Information

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Phone: 201-499-1844 | Email: Sampinute@celltrion.com

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Mar

turer Information BBB Inc.

Manufacturing site (Samseong Center)

7F, 22, Teheran-ro 81-gil, Gangnam-gu, Seoul, Republic of Korea Tel.: +82-70-4407-8808 | Email: CS@bbbtech.com



SAMPINUTE[™] Analyzer User Manual

Sampinute[™] Analyzer (Immunoassay analyzer)

Sampinute[™] Analyzer detects specific biomarker *via* immunoassay (MESIA; Magnetic Electrochemical Sandwich ImmunoAssay) from a small amount of test sample. Sampinute[™] Analyzer is intended to be used as an *in vitro* diagnostic medical device. Please read this user manual thoroughly for correct use and keep it for future reference. For use under an Emergency Use Authorization (EUA) only.





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1. Product Introduction

1-1. Intended Use

The Sampinute[™] Analyzer is an instrument that performs immunoassay on test cartridges. It reads specific biomarkers within the test sample.

1-2. Principle

Sampinute[™] Analyzer is an instrument based on an immunoassay technique called MESIA (Magnetic Electrochemical Sandwich Immunoassay). Sampinute[™] Analyzer can be used to analyze a single or multiple analyte(s) by detecting electrochemical signals on the test cartridge, which is for a one-time *in vitro* diagnostic (IVD). The magnets within the device form magnetic fields, which facilitate the interaction of nanoprobes in the test cartridge to induce antibody-antigen reactions and remove on bound magnetic nanoprobes. The Sampinute[™] Analyzer measures the concentration of any antigens or antibodies by detecting electrochemical signals from the reaction-completed magnetic nanoprobes. Sampinute[™] Analyzer transmits the test data to the designated server *via* Wi-N.

1-3. Precautions & Warnings

Please read this user manual thoroughly for appropriate use.

Sampinute[™] Analyzer is for use in IVDs.

Sampinute[™] Analyzer and test cartridges are indicated for use in clinical laboratories.

Check that all components are present in the package.

Read this user manual before operating the analyzer

The analyzer needs AC power connection to operate for an extended period of time and charge. Please ensure your power supply is compatible with the analyzer's power specifications. Increasing the inner temperature activates the cooling fan inside the air vent.

Establisha free distance of at least 10 cm (4 inches) from the face of the air vent when installing the device. Keep the air vent free from inflow of foreign substances.

Accidental entry of metals into the analyzer may cause breakdown or electric shock.

Please refer to product-specific package inserts included in each test kit for more information. Turnoff the power and remove the adapter if you do not expect to use the analyzer for an extended period of time.

Do not use or store the product in a location exposed to open flames.

Do not expose or store the product in a location subject to high temperature and high humidity. Prevent water and dust from entering the device.

Do not apply excessive force, drop or step on the product.

Aluminium tapes have been attached on the top of cartridges to help sustain the quality of the cartridges. Only remove these tapes upon usage.

Avoid dropping the device while moving it.

 $Do \, not \, as semble \, or \, modify \, the \, analyzer.$

The analyzer is not water-resistant. Do not wash it with water or touch it with wet hands. Do not use the producttodiagnose specific illnesses and conducts creening tests, such as neonatal screening. Use the analyzer only to assist medical decision-making.

Keep this product out of the reach of children.

When discarding the analyzer, discard in a safe place in accordance with local, state and federal regulations or accreditation requirements.

For use under the Emergency Use Authorization (EUA) only

When used with the Sampinute[™] COVID-19 Antigen MIA:

This test has not been FDA cleared or approved; the test has been authorized by FDA under an Emergency Use Authorization (EUA) for use by laboratories certified under the CLIA that meet the requirements to perform moderate or high complexity tests.

This test is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostic tests for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.

1-4. Components

The following are the components you should check upon opening the package of Sampinute[™] Analyzer. Please check that all components are included in the box.

 $Please \ contact the \ purchase \ location \ fany of the \ following \ components \ are \ not \ included \ or \ damaged.$

Sampinute[™] Analyzer, 1EA Check Cartridge, 1EA User manual Quick Reference Guide

1-5. Symbol Guide

Please refer to the following symbols that can be found on the external package, package descriptions, enclosed papers, etc.



2. Product Description

2-1. Sampinute[™] Analyzer



(1) Screen

Interface that the user can touch to operate the analyzer and check the results.

(2) Power Button

Button to turn the device on or off.

(3) Tray (closed)

A component to insert the test catridge. Opening and closing of the tray are controlled by the software.

(4) Air vent

omponent to control temperature inside the analyzer.

5) Power supply connector

idapter connection port to supply power to the device.





(6) USB port

A USB-A port for barcode scanner and mobile printer.

(7) Electrode connector for test cartridge

A connector for cartridge reading.

(8) Cartridge recognition switch

A switch to check cartridge insertion.

(9) Tray (open)

The tray is open with the cartridge inserted. (Component as closed status shown in (3))

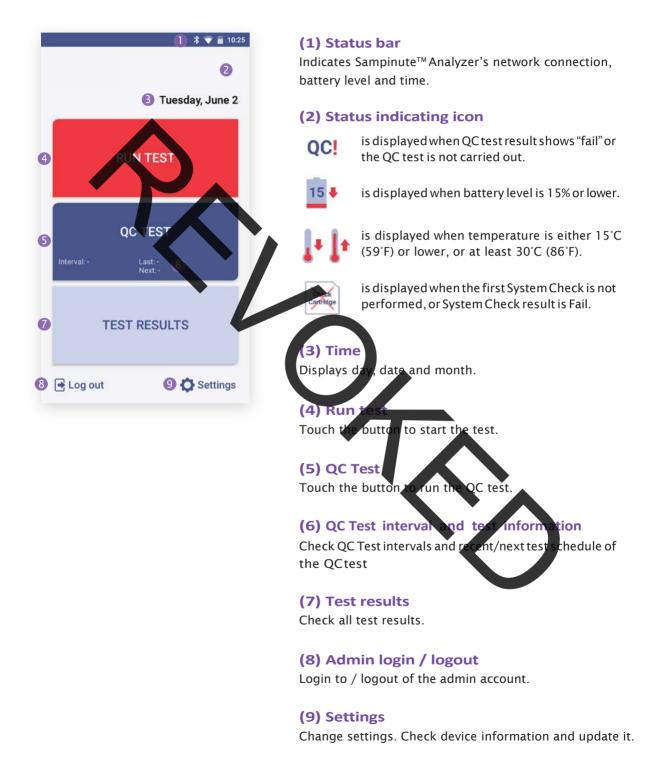
2-2. Check Cartridge

The check cartridge is used to evaluate instrumental and electronic operations of the analyzer. An alignment sensor is embedded in the check cartridge to check the alignment of magnets at the top and bottom of the analyzer.



3. Screen Description

3-1. Home Screen



4. Initial Setup

STEP 1

Connect the power adapter.

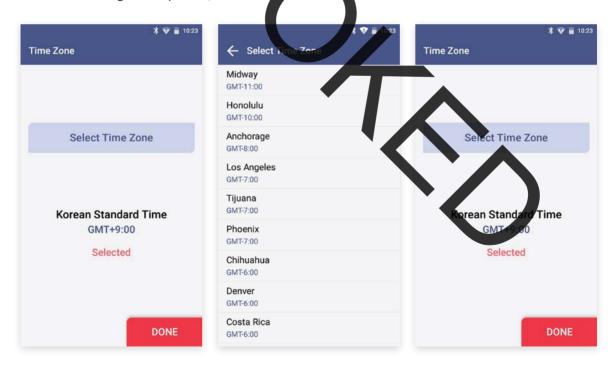
STEP 2

Touch the 'power' button to start.



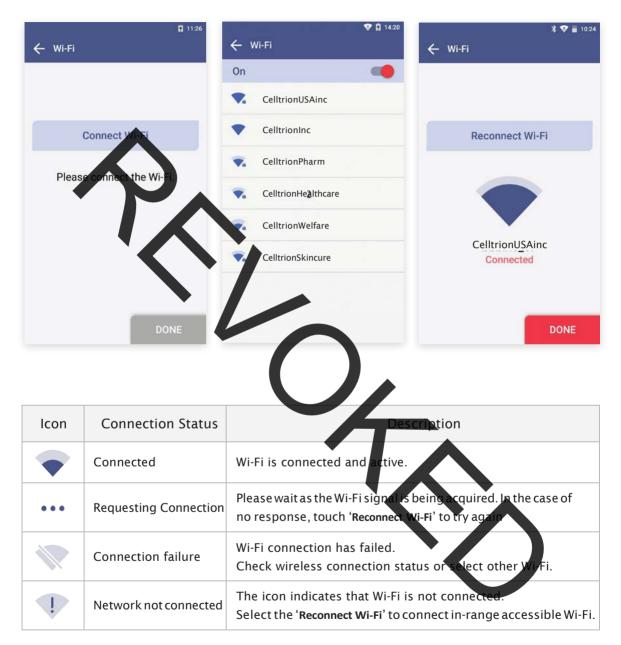
STEP 3 Time Zone setting

Touch the 'Select Time Zone' - Select the time zone where the user is located. * When setting is completed, touch the DONE' button.



STEP 4 Wireless network (Wi-Fi) setting

Connect Wi-Fi \longrightarrow Select the Wi-Fi to connect to. \longrightarrow When connected, the '**DONE**' button sactivated. \longrightarrow Touch the '**DONE**' button.



STEP 5 Create Admin Password

Enter admin password \rightarrow Touch the '**OK**' button

* 💎 冒 10:25	
← Create Admin Password	• Administrator ID is automatically set as 'Admin'.
	· Please set your own admin password.
Admin ID: Admin Please create password.	 Password is case-sensitive and must be a combination of letters and numbers.
ок	 Your password cannot contain spaces and must be less than 45 characters long.
	• Touch the eye-shaped icon • to check entered password.
q ¹ w ² e ³ r ⁴ t ⁵ y ⁴ u ⁷ i ⁶ q p ⁴	
asd fghjkl	
🛧 z x c v b n n 🖾	
- 1123 ,	
STEP 6 Lock Setting Establish QC Test settings	according to each item Touch the ' οκ ' button
Establish QC Test settings	according to each item — Touch the 'ОК' button QC Lock On
Establish QC Test settings	
Establish QC Test settings	QC Lock On • In the case of when QC Test result shows 'FAIL', the test is unavailable until the result shows 'PASS'. • Conduct QC test regularly as scheduled, otherwise test
Establish QC Test settings	QC Lock On • In the case of when QC Test result shows 'FAIL', the test is unavailable until the result shows 'PASS'.
Establish QC Test settings	QC Lock On • In the case of when QC Test result shows 'FAIL', the test is unavailable until the result shows 'PASS'. • Conduct QC test regularly as scheduled, otherwise test
Establish QC Test settings	OC Lock On • In the case of when QC Test result shows 'FAIL', the test is unavailable until the result shows 'PASS'. • Conduct QC test regularly as scheduled, otherwise test cannot berun.
Establish QC Test settings	OC Lock On • In the case of when QC Test result shows 'FAIL', the test is unavailable until the result shows 'PASS'. • Conduct QC test regularly as scheduled, otherwise test cannot berun. QC Lock Off
Establish QC Test settings	 OC Lock On In the case of when QC Test result shows 'FAIL', the test is unavailable until the result shows 'PASS'. Conduct QC test regularly as scheduled, otherwise test cannot berun. OC Lock Off A test can be run regardless of QC Test results.

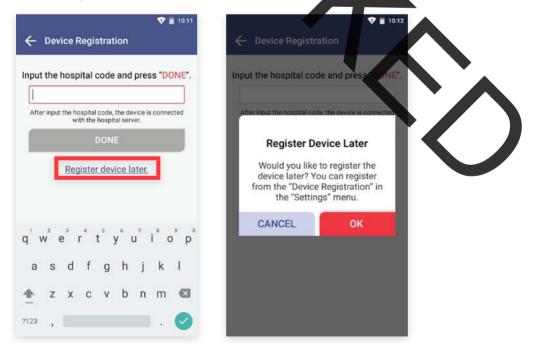
- · Off: Disables QC Test interval
- \cdot Interval setting: SetupQCTestinterval within 1 to 365 days

STEP 7 Device Registration

- a. Enter hospital code in the window.
- b. After entering hospital code, touch the 'DONE' button to connect to hospital server.
- c. Once connected to server, initial setup is completed and the home screen will be displayed.

Device Registration	* 🖤 🖬 10
nput the hospital code and press "DONE".	Tuesday, June
After input the hospital code, the device is connected with the hospital correr.	RUN TEST
Begister revice later.	QC TEST Interval: - Last: - Next: -
asdfghjkl	TEST RESULTS
▶ z x c v b n m ⊠	E Log out

If there is no hospital code for device registration, touch the 'Register device later' button.
 Device registration is available later in ['Settings' → 'Device Registration'] (see Page 43).



Barcode Scanner Connection

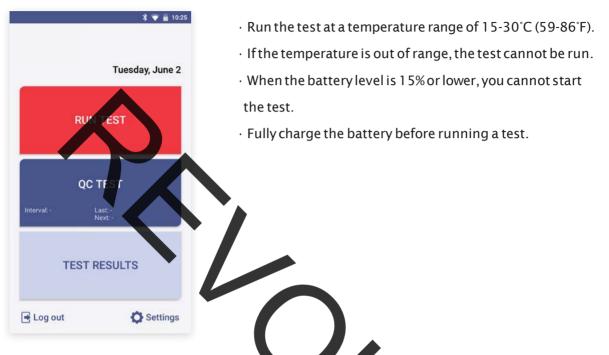
- a. Connect the barcode scanner to the USB Port on the back of Sampinute[™] Analyzer.
- b. Barcode scanner automatically starts operation when connected to the USB port.



5. Running a Test

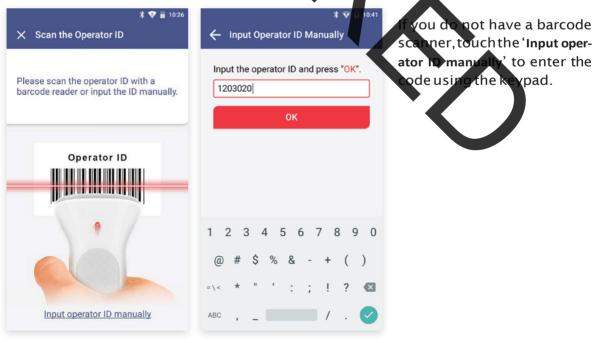
5-1. How to Perform RUN TEST

STEP 1 Touch the 'RUN TEST' button to start test



STEP 2 Scan the operator ID

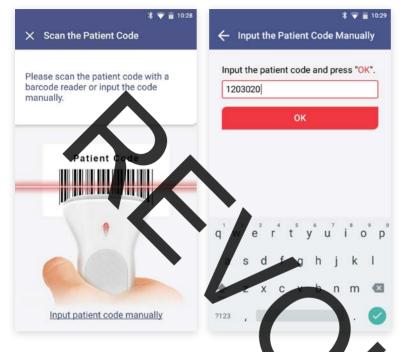
a. Scan the operator ID with the barcode scanner or manually enter the operator ID using the keypad. Touch the **'OK'** button only if entered manually.



STEP 3 Scan the patient code

a. Scan the patient code with a barcode scanner or manually enter the patient code using the keypad. Touch the 'OK' button only if entered manually.

b. The operator ID and the patient code are displayed on the screen. The screen subsequently resumes to cartridge QR code scan.



If you do not have a barcode scanner, touch the 'Input patient code manually' to enter the code using the keypad.

STEP 4 Scan the QR code of the test cartridge

- a. Scan the QR code on the cartridge pouch with the barcode scanner.
- b. After scanning the QR code, the cartridge type and LOT will be displayed on the screen.



- The barcode scanner has to be purchased separately.
- If QR code recognition fails, scan a new cartridge pouch.
- Please check if the cartridge type of the cartridge is

correct.

STEP 5 Test cartridge insertion

LOT

- a. Remove the aluminium tape attached on top of the cartridge.
- b. Insert the test cartridge to the tray according to the instructions on the screen.
- c. When the test cartridge is inserted in the correct position, the screen automatically proceeds to the sample injection stage.

* 👽 🖬 10:31 · Make sure to check whether the correct operator and patient × Insert Test Cartridge codes are entered before scanning the QR code. · Ensure that the correct test cartridge is being used for the 1203020 **Operator ID** target analyte. Patient Code 120302 Cartridge Type igen MIA CC 2090F already used one. Step 2 of 4 Insert the test cartridge.

· Before inserting the cartridge, ensure that you are not using an

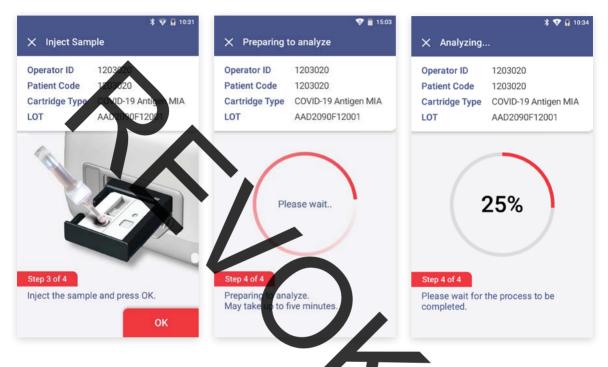
· When the error message, "Please contact the system administrator" is displayed after inserting the cartridge, stop e process and contact the administrator to resolve the issue.

STEP 6 Test sample injection and starting test

a. Prepare a test sample.

b. Before injecting the sample, check injection location of the test sample and whether a sufficient amount of test sample is prepared.

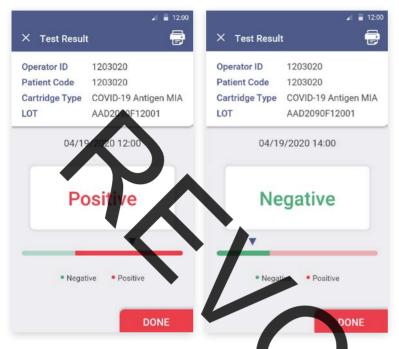
- c. Inject the test sample within 2 minutes after inserting a cartridge.
- d. Touch the 'OK' button.



- · When the analysis starts, please wait until analysis reaches '100%'
- If the tray is not inserted into analyzer within 2 minutes after injected sample, start over with a new cartridge.
- · If an error occurs in waiting mode, inject more of the sample into the cartriage inserted.
- When an error occurs in analyzing mode, start over with a new cartridge.
- · Refer to the test cartridge package insert for details on how to draw test samples

STEP 7 Check the result of the test

- a. When test is completed, the result of the test is displayed on the screen.
- b. Check the result and remove the cartridge from the tray.
- c. Touch the 'DONE' button \longrightarrow Return to the home screen.



TEST RESULT: Positive or Negative - Normal operation of test cartridge If the warning sign is displayed as shown: ***warning: unexpected signal detected.**, a retest is recommended.

STEP 8 Discard the used cartridge.

a. Refer to the images below to eject the cartridge from the trans

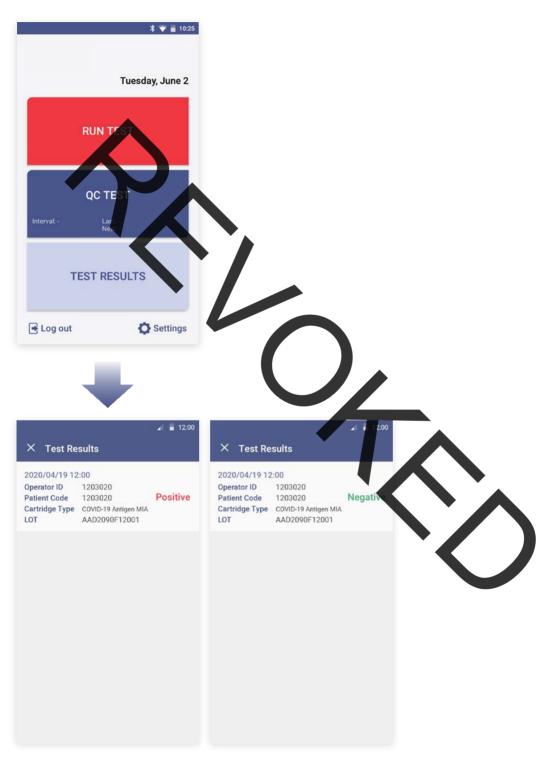
b. Discard the SampinuteTM COVID-19 Antigen MIA test cartridge after use as required by internal quality control procedures and in accordance with local, state and federal regulations or accreditation requirements.



5-2. Result Management

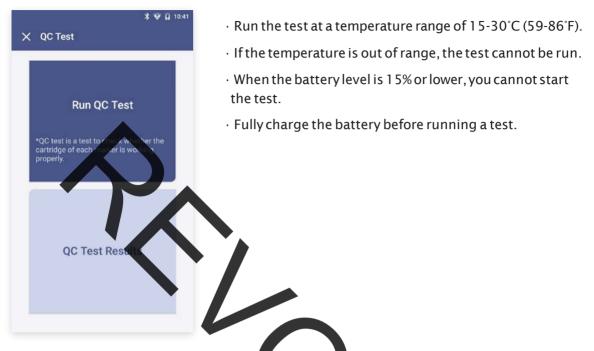
Check the results of the test.

The results can be checked by touching the 'TEST RESULTS' button on the home screen.



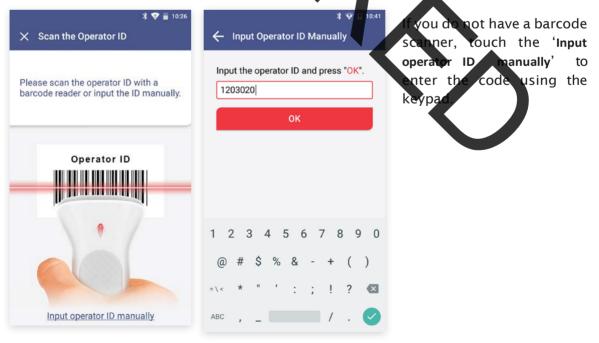
6. Running a QC Test (Control Solution Test)

STEP 1 Touch the 'Run QC Test' button.



STEP 2 Scan the operator ID

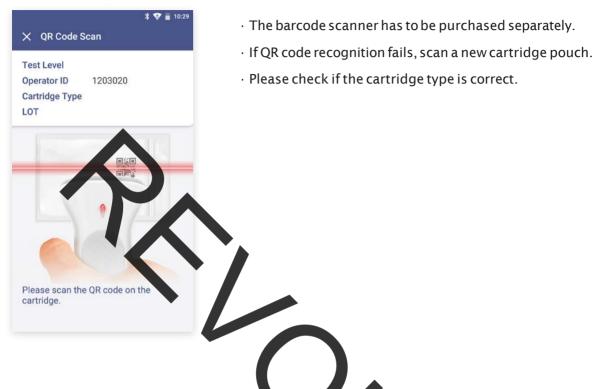
Scan the operator ID with a barcode scanner or manually enter the operator ID using the keypad. Touch the '**OK**' button only if entered manually.



STEP 3 Scan the test cartridge QR code

a. Scan the QR code on the cartridge pouch with the barcode scanner.

b. Upon scanning the QR code, test level, the cartridge type and LOT will be displayed on the screen.



STEP 4 Insert the test cartridge



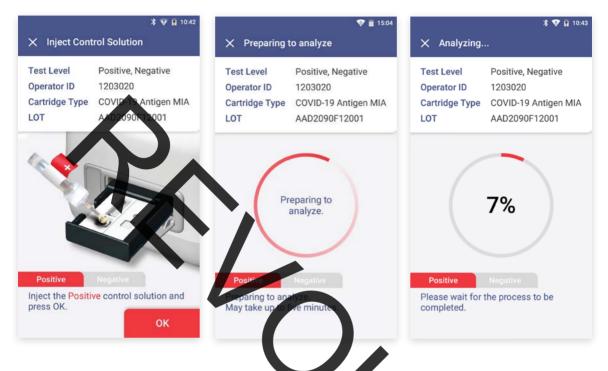
- Ensure the correct operator ID is entered.
- Check that you scanned the QR code of the cartridge to be inserted.
- Double check whether you are using the test cartridge for the correct target analyte.
- $\cdot\,$ Before inserting a cartridge, ensure that you are not using a used one.
- \cdot Remove the aluminium tape attached on top of the cartridge.

• When the error message, **"Please contact the system administrator"** is displayed after inserting the cartridge, stop the process and contact the administrator to resolve the issue.

STEP 5 Inject the positive control solution

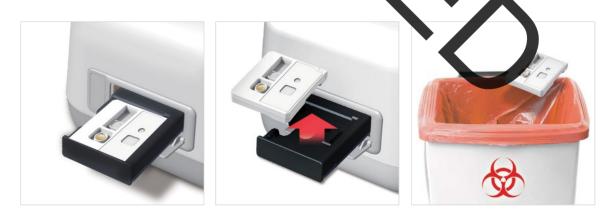
a. Prepare positive control solution of the same cartridge type as the inserted test cartridge.
b. Add 2-3 drops of the positive control solution into the sample inlet of the test cartridge within 2 minutes.

c. Touch the '**OK**' button.



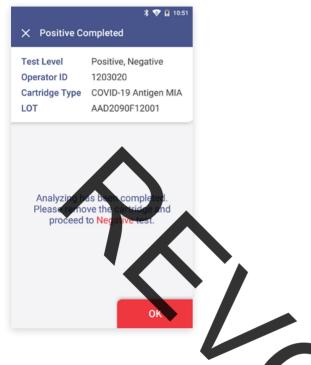
STEP 6 Discard the used cartridge

- a. Refer to the images below to eject the cartridge from the tray.
- b. Discard the Sampinute™ COVID-19 Antigen MIA test cartridge after use as required by internal quality control procedures and in accordance with local, state and federal regulations or accreditation requirements.



STEP 7 Discard the used cartridge (continued)

When touching the 'OK' button, the screen will proceed to the 'QR Code Scan' screen.



STEP 8 Test cartridge QR code scan

a. Scan the QR code on the cartridge pouch with the barcode scanner.

b. After scanning the QR code, test level, the cartridge type and LOT will be displayed on the screen.



- · Barcode scanner has to be purchased separately.
- If QR code recognition fails, scan a new cartridge pouch.
- · Please check if the carthidge type is correct.

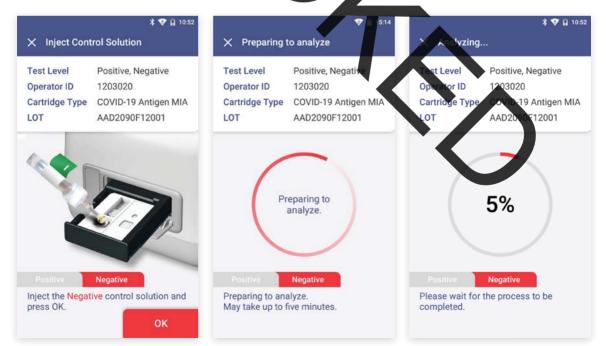
STEP 9 Insert the test cartridge



- \cdot Ensure that the correct operator ID is entered before inserting the cartridge.
- \cdot Check that you scanned the QR code of the cartridge to be inserted.
- Double check whether you are using the test cartridge for the correct target analyte.
- Before inserting a cartridge, ensure that you are not using a used one.
- $\cdot\,$ Remove the aluminium tape attached on top of the cartridge.
- When the error message, **"Please contact the system administrator"** is displayed after inserting the cartridge, stop the process and contact the administrator to resolve the issue.

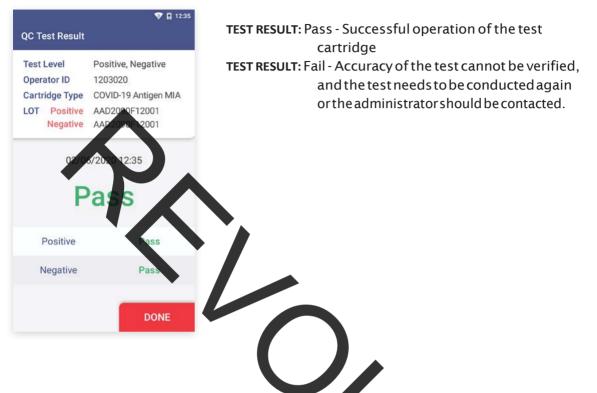
STEP 10 Negative control solution injection

- a. Prepare negative control solution of the cartridge type as the inserted test cartridge.
- b. Add 2-3 drops of the negative control solution into the sample inlet within 2 minutes.
- c. Touch the '**O**κ' button.



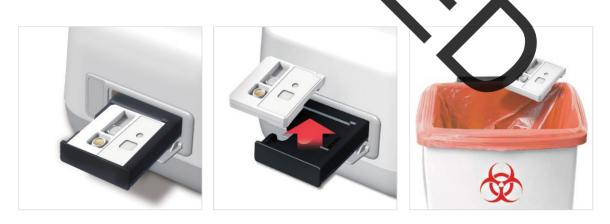
STEP 11 Check the result of QC test

- a. When test is completed, the result of QC test is displayed on the screen.
- b. Check the result and remove the cartridge from the tray.
- c. Touch the 'DONE' button \longrightarrow Return to the home screen.



STEP 12 Discard the used cartridge.

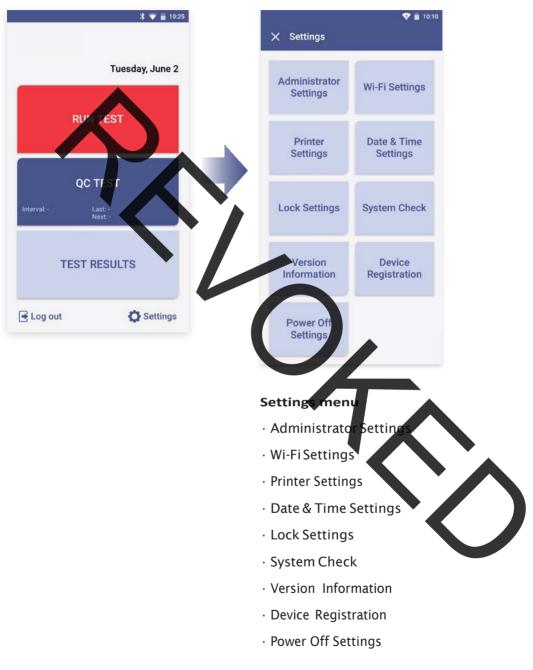
- a. Refer to the images below to eject the cartridge from the tray.
- b. Discard the Sampinute[™] COVID-19 Antigen MIA test cartridge after use as required by internal quality control procedures and in accordance with local, state and federal regulations or accreditation requirements.



7. Function Settings

7-1. Setup Screen

Settings \longrightarrow Settings Menu



7-2. Administrator Settings

Administrator Information

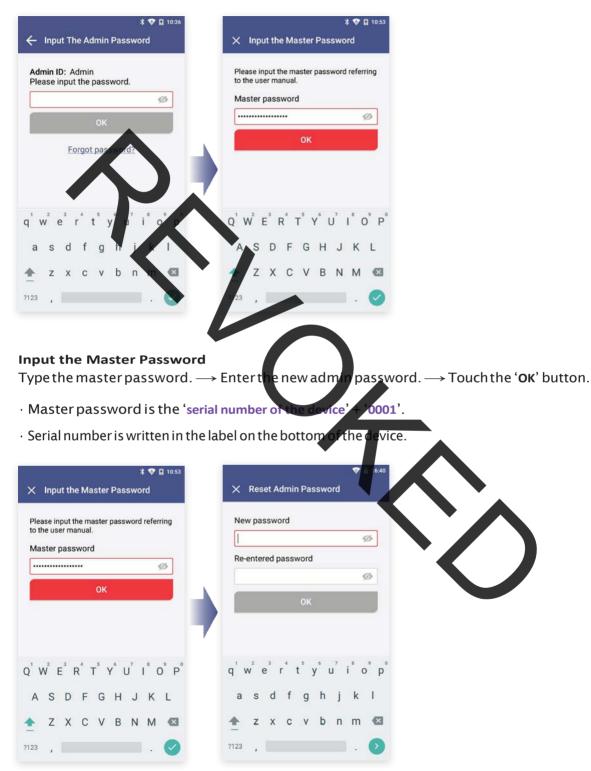
- a. Enter admin password to proceed to administrator settings.
- b. Touch the 'Administrator Information' button to check the administrator information.

* ♥ 🖬 1036 ← Input The Admin Password	* ♥ II 11.01 ← Administrator Settings	* ♥ II 11.01 ← Administrator Information
Admin ID: Admin Please input the password.	Administrator Information	Admin ID Admin
© Profeerpassend?		
q w e r t y u p o p		
asdfghj ★ zxcvbnm ↔		
🔗		
	button. $ ightarrow$ Enter the current	password. word'. → Touch the 'OK' button · Password is case-sensitive and must be a combination of
Administrator Information	Current password	letters and numbers.
Reset Password	New password	Your password cannot contain spaces and must be less than
	Re-enter password OK Q Q Q Q Q Q Q Q Q Q Q Q Q	 45 characters long Touch the eye-shaped icon o to check entered password.

Forgot Password

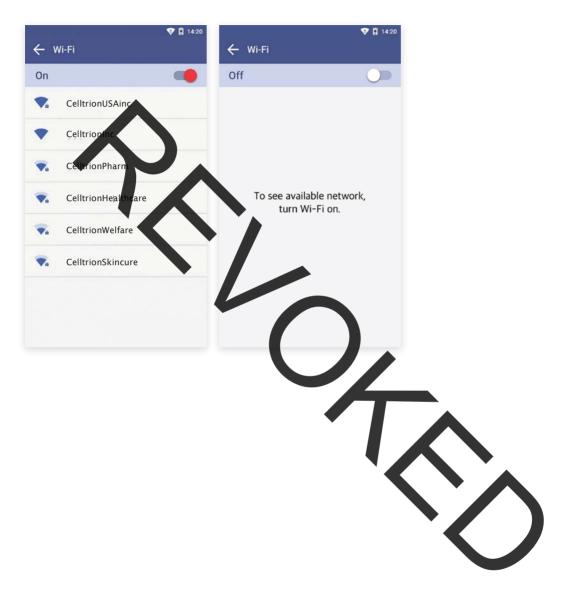
a. If you forgot admin password, touch 'Forgot password?'.

b. Master password input screen will be displayed.



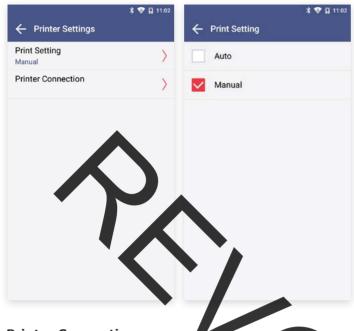
7-3. Wi-Fi Settings

Turn Wi-Fi On or Off & Connect to a Wi-Fi. [Wi-Fi Settings \rightarrow On/Off]: Turn Wi-Fi network on or off Select 'On': Select Wi-Fi to connect to.



7-4. Printer Settings

Print Setting



Select 'Auto' or 'Manual' button in Print Setting.

Printer Connection

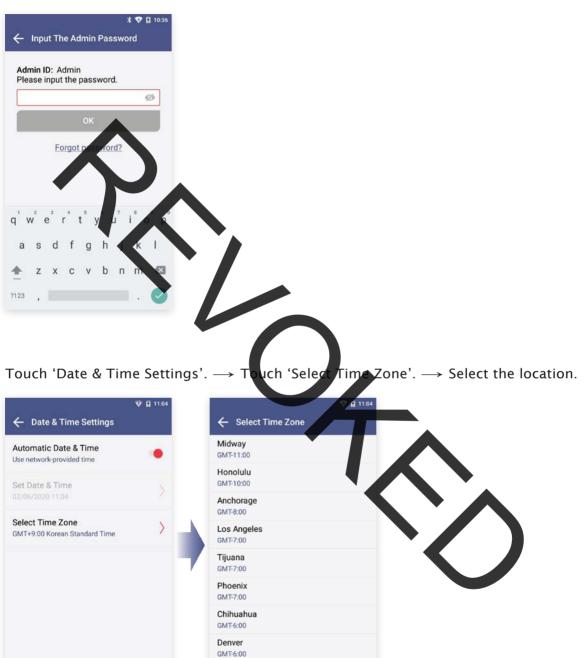
- a. Find a printer model to link from the 'Connectable Devices' list.
- b. Select the model.
- c. The printer is connected and displayed in Connected Device.
- d. To disconnect, touch the 'Disconnect' but
- · Printer is automatically linked when you connect USP por
- \cdot To find a printer's model number, remove the battery of printer. Then, check the product label.

- Printer Connection	* 🎔 🖬 11:03	← Printer Settings	♥ ■ 11:03
onnected Devices	onnected Device	Print Setting Manual	>
PP-R200III_090006	ç	Printer Connection SPP-R200III_090006	>

7-5. Date & Time Settings

Date & Time Settings

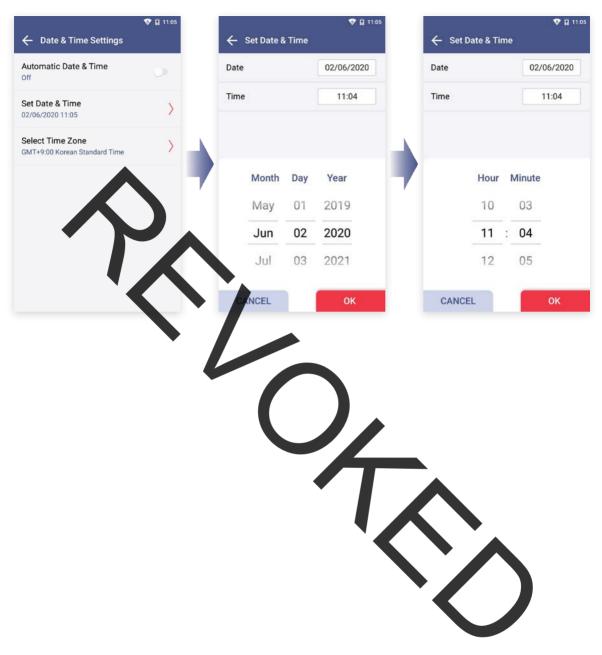
Enter the admin password to access 'Date & Time Settings'.



Costa Rica GMT-6:00

32 Function Settings

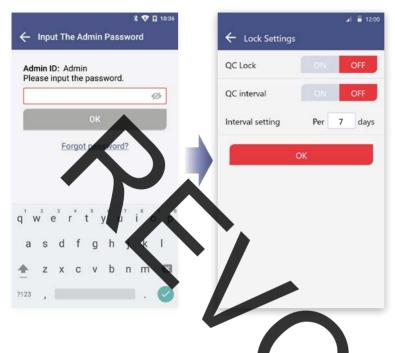
Adjust 'Set Date & Time'. \rightarrow Touch the **'OK'** button.



7-6. Lock Settings

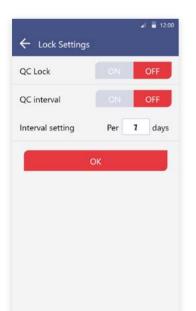
STEP 1 Lock Settings

Enter the admin password to access Lock Settings.



STEP 2 Lock Settings QC Test

[ON] The QC Test result must be a 'PASS' to be able to run a test. [OFF] A test can be run regardless of QC Test result.



• When all settings of QC took are turned OFF, a test can be run even if QC Test result is fail'.

• The manufacturer is not responsible for the test results run under settings with all QC Lock Settings turned QFF.

STEP 3 QC Test interval setting

[ON] A sample test is available after conducting QC test at the intervals you set up. [OFF] You can continue QC test without setting up intervals.

✓ 🖬 12:00	\cdot You can set the intervals for QC test.
QC Lock ON OFF	• When the interval is set up, it will be shown under Run QC Test
QC interval ON OFF	on the home screen.
Interval setting Per 7 days	
R	

STEP 4 Date interval setting

- a. Touch the input box and then select using the numeric keypad shown on the screen.
- b. Enter a number between 1 and 365 to set up QC Test intervals.

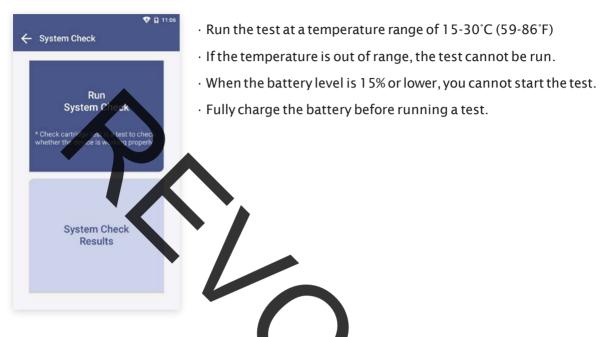
← Lock Settings		2	12:00
QC Lock	ON		OFF
QC interval			OFF
Interval setting	Per	7	days

· Please input only numbers for the date interval setting.

8. Maintenance

8-1. System Check

STEP 1 Touch the 'Run System Check' button



STEP 2 Scan the QR code of the check cartridge

- a. Scan QR code on a check cartridge with the barcode scanner.
- b. After scanning the QR code, the screen will display "Insert Check Cartridge."



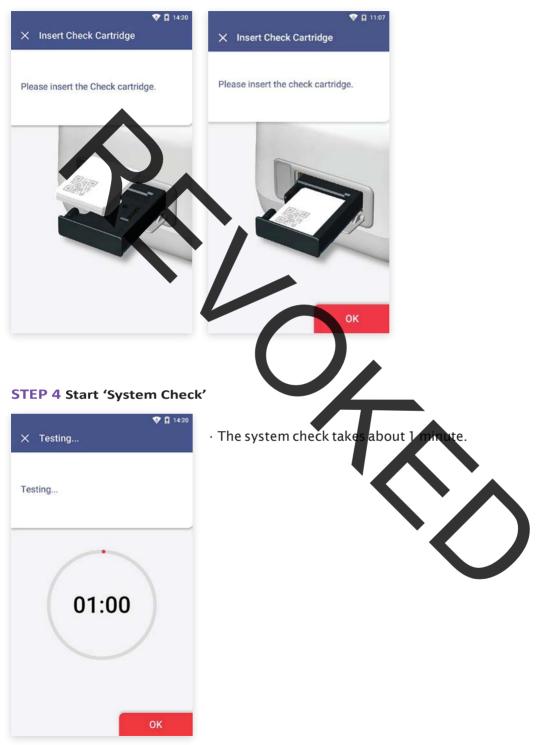
- · Barcode scanner has to be purchased separately.
- \cdot If you do not scan QR code of the test cartridge, the test will not

proceed.

 \cdot If QR code recognition continues to fail, please contact the administrator.

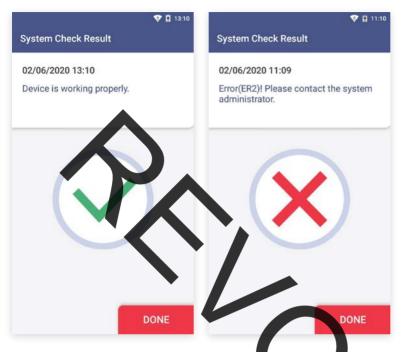
STEP 3 Insertion of check cartridge tray

- a. Insert a check cartridge to the tray according to instructions on the screen.
- b. Insert the check cartridge in the correct position.
- c. Touch the '**O**κ' button.



STEP 5 Confirm the system check results

- a. The test results are displayed upon completion.
- b. After checking the results, remove the used cartridge from the tray.
- c. Touch the '**DONE**' button to move to the home screen.

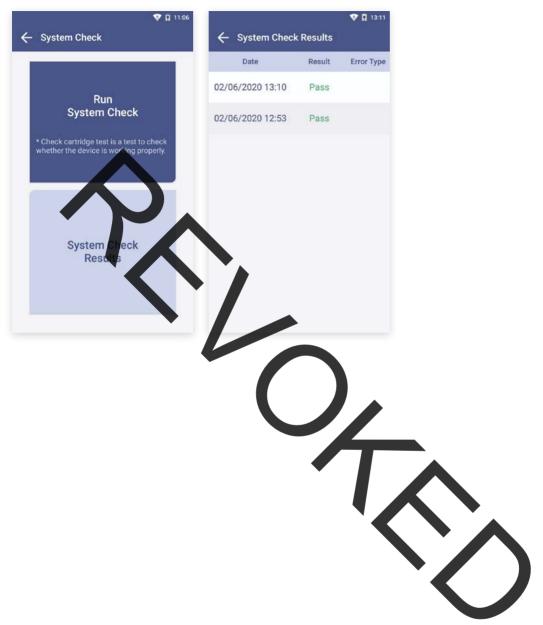


- Pass: Indicates that the device is working properly and a mark is displayed on the screen.
- Fail: An error message and an X mark is displayed on the screen. Try out the test again or contact the administrator.



System Check \longrightarrow System Check Result

The System Check Results are displayed in order from the oldest to the newest.



8-2. Version Information and Update

STEP 1 Check the Version Information

- a. Type the admin password and access device registration menu.
- b. Confirm the latest version



STEP 2 Update new version

Option 1. Software update by USB connection

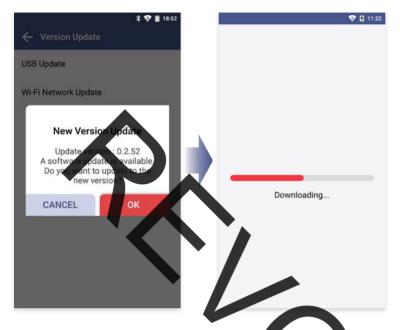
- a. Connect the USB containing the updated version to the USB port on the back of the analyzer.
- b. Select '**USB Update**'. (A message to update to new version will be displayed if the software needs to be updated.)
- c. Touch the 'OK' button to update to the latest software.

👽 🖪 11:22	* 👽 🔳 18:52	👽 🖬 11:22
← Version Update	← Version Update	
USB Update	USB Update	
Wi-Fi Network Update	Wi-Fi Network Update	
	New Version Update Update version: 0.2.52 Asoftware update is available, Do you want to update to the new version? CANCEL	Downloading

- \cdot USB connection \rightarrow The above message pops up. \rightarrow Check the pop-up box. \rightarrow Touch OK.
- · Allow USB drive connection for successful update
- \cdot The update starts when the analyzer's battery level is 15% or higher
- · Removing the USB before finishing the update may cancel the update.
- · If the update continuously fails, please contact the system administrator.

Option 2. Wireless update of software

- a. Select 'WI-FI Network update'. (A message to update to new version will be displayed if the software needs to be updated.)
- b. Touch the 'OK' button to update to the latest software.



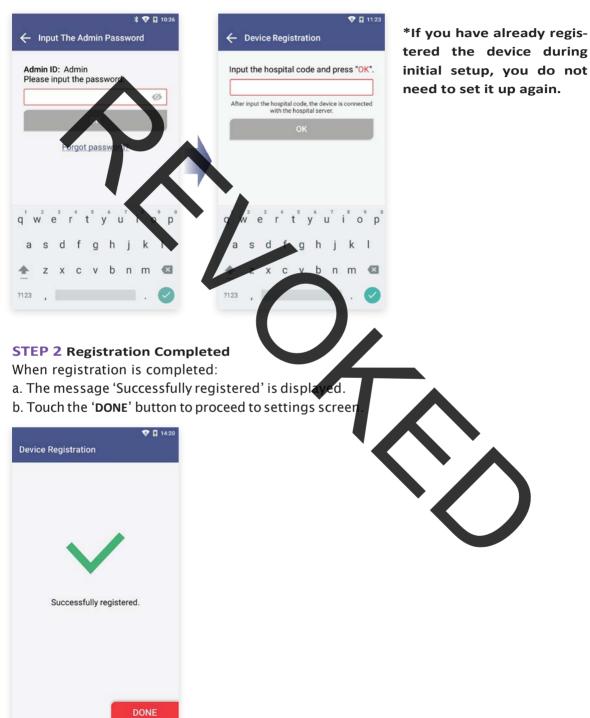
- The update starts when Sampinute[™] Analyzer's battery level is 15% or higher.
- Unstable wireless network connectivity may cancel the update.
- If the update continuously fails, please contact the system administrator.



8-3. Device Registration

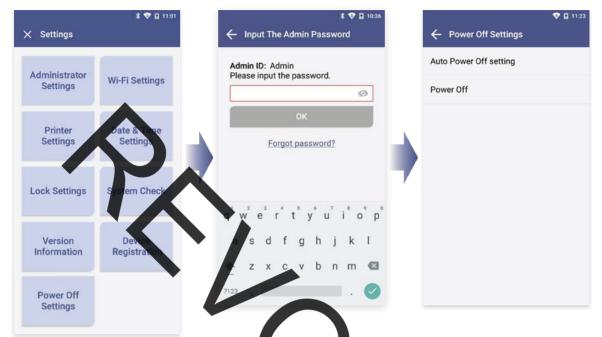
STEP 1 Settings \rightarrow Device Registration

- a. Input the admin password to access device registration menu.
- b. Enter the hospital code on the device registration screen.
- c. Type the hospital code and touch the 'DONE' button. The device will try to access the hospital server.



8-4. Auto Power Off Settings

- a. Select the 'Power Off Settings' button.
- b. Input the admin password.
- c. Select 'PowerOff'



Option 1. On/Off Setting of Auto Power Off Select on or off by touching **JAuto Power Off Settings** — Pin

Select on or off by touching [Auto Power Off Settings $- \rho$ On/Off] to enable or disable the function.

← Auto Power Off setting	👽 🖬 11:23	← On/Off Setting	
On/Off Setting On	>	On 🛛	$\boldsymbol{\wedge}$
Auto Power Off Time 10 hours later	>	Off	

- \cdot Default auto power off time is 10 hours when the function is enabled 'On'.
- \cdot Auto power off time can be changed by selecting Auto Power off Time.

8-4. Auto Power Off Settings

On/Off setting \rightarrow **Select the 'On' button** \rightarrow **Select the 'Auto power off time'** After selecting the duration time for the screen to be displayed, the device will be automatically turned off after that duration time.

😵 🖬 11:24	😵 🖪 11:24		👽 📱 11:24
← On/Off Setting	← On/Off Setting		← Auto Power Off Time
On	On		An hour later
Off	Off		2 hours later
			5 hours later
			10 hours later
		7	24 hours later

Option 2. Power Off

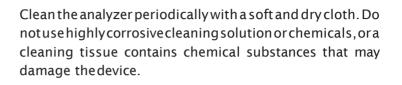
- a. Select the '**Power off**' button.
- b. Touch the 'YES' button to finally turn the power of the device off.



- It is recommended to turn Sampinute^{TN} Analyzer off, if the instrument is not used for a long period of time.
- If you turn off the analyzer for a long tune, tune settings of the device may be initialized. Time is automatically set up, once the instrument is connected to Wi-Fi.

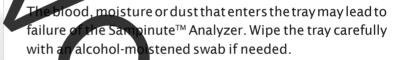
8-5. Cleaning

Clean the analyzer periodically with a soft and dry cloth.



*Make sure to turn off when cleaning the device.

Test Tray Cleaning



*Make sure to turn of the device when cleaning the tray. *Avoid contact with electrode when cleaning as it is a sensitive part.

8-6. Storage Requirements

- · Protect the device from dust and do not expose it to direct sunlight.
- Recommended temperature and humidity for storage condition are as follows: [Temperature] -10 - 45°C (14 - 113°F)
 [Humidity] 10 - 80%
- · Avoid storage places prone to tremors or that could cause falling.

9. Error Messages

9-1. Notifications

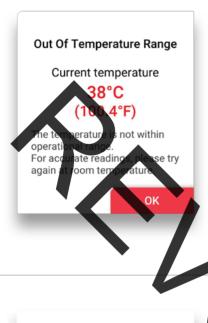
Error Notifications	Descriptions and Solutions
Please input the admin password.	Admin password is not inputted. Displayed when touching the ' OK ' button without having entered the admin password. Solution: Input the admin password and then touch the ' OK ' button.
Please input the hospital code.	Hospital code is not inputted. Displayed when touching the ' DONE ' button without having entered the hospital code. Solution:Ifahospitalcodeisrequired, contact the administrator.Input the hospital code and then touch the ' DONE ' button.
Unregistered hospital sode. Please contact administrator.	Unregistered hospital code Displayed when unregistered hospital code is entered. Solution: If a hospital code is required, contact the administrator. Input registered hospital code. If the issue persists, contact the administrator.
Failed to connect to network. Please tryagain.	No response from server Displayed when device registration fails due to fost network connection or other errors which make server communication unavailable. Solution Either try to connect again at a later time or connect to another network.
Unknown error. Please tryagain.	Wi-Fi communication error The alert pop up when Wi-Fi communication is failed. Solution: Try again. If the issue persists, then contact the administrator.
Pleasetry again after connecting to a network.	No Wi-Ficonnection Displayed when device requests server com- munication for Wi-Fi connection. Solution: Connect to a Wi-Fi.
Low battery. 14% of the battery level is remaining. The remaining battery must be 15% or higher to run the analyzer. Please connect the analyzer to a power source.	Low battery Displayed when touching the low-battery icon on the home screen. Solution: Connect to a power adapter.

Error Notifications	Descriptions and Solutions
Please perform the system check and the QC test prior to sample tests as instructed in the manual.	System check and QC test not performed Displayed when touching ' RUN TEST ' without having performed system check and QC test. Solution: Perform system check and QC test if required.
The system check was failed. Please check the results again. Contact the system administrator.	 Displayed when touching the system check warning icon on the home screen under the condition that the system check was failed. Solution: Perform system check. [Settings screen → System Check → B System Check]
Either the QC test was failed or no tests have been performed within the set QC interval. Please check the results again.	Displayed when touching QC! icon on the home screen under the condition that either the QC test was failed or no analyses have been run within the set QC interval. Solution: Perform the QC test.
The temperature is not within operational range. (Current temperature: 38°C/100.4°F)	Inappropriate temperature Displayed when touching the temperature icon on the home screen which pops up when temperature is out of range for testing. Solution: Re-locate device in an environment of operational range (15-30°C / 59-86°F).
The admin account automatically logged out.	Administrator account logout Displayed when administrator account logs out before power off or reboot.
Please input the master password.	Master password has not been entered. Displayed when the 'OK' button is touched without master password input. Solution: Enter the master password.
Incorrect password. Please input the master password again.	Password input error Displayed when the correct password has not been entered. Solution: Enter the correct password.
The fan is activated due to increased inter- nal temperature of the analyzer.	Fan activated Displayed when the fan is activated by the Celltrion Sampinute™ Analyzer's temperature sensor operation.
Invalid ID. Please check the ID again.	Wrong operator ID Displayed when wrong operator ID is entered. Solution: Enter the correct ID.

Error Notifications	Descriptions and Solutions
Please input the operator ID.	Operator ID has not been entered. Displayed when touching ' OK ' without enter- ing the operator ID. Solution: Enter the operator ID.
Please input the patient code.	Patient code has not been entered. Displayed when touching ' ok ' without enter- ing the patient code. Solution: Enter the patient code.
Please insert test sartridge in the tray.	Tray ejection failure Displayed when a cartridge is not inserted in the tray within the specified time period. Solution: Insert the cartridge immediately upon request.
Please remover the cartridge	Cartridge is not removed. Displayed when cartridge is not removed upon request. Solution: Remove the cartridge.
Incorrect password. Please input the pass- word correctly.	Current password mismatch. Displayed when you do not enter currently set password. Solution: Enter the currently set password.
The new password and re-entered pass- word do not match. Please input the pass- words again.	New password mismatch Displayed on the Change Administrator Pass- word screen when newly entered password does not match with the one typed in the new password confirmbox. Solution: Ensure both passwords entered are the same.
Please input the new admin password.	New administrator password has not been entered. Displayed when a new administrator password has not been entered in the pass- word settingscreen. Solution: Enter new administrator password.
Please disconnect the device first and then try connecting the device.	Bluetooth disconnection Displayed when a new Bluetooth printer connection is requested while the analyzer is connected to a Bluetooth printer. Solution: Connect to the appropriate Blue- tooth printer.
Please remove the USB port first and then try connecting the device.	USB disconnection Displayed when a Bluetooth printer connec- tion is requested while the analyzer is connected to a USB mobile printer. Solution: Either disconnect the Bluetooth or the USB printer.

9-2. Error pop-ups

Error pop-ups





level is remaining. The remaining battery must be 15% or higher to run the analyzer. Please connect the analyzer to a power source.

ОК



Descriptions and Solutions

Inappropriate temperature

Case1.

Pops up when the '**RUN TEST**' button is touched on the home screen, or the '**RUN QC TEST**' button is touched.

Case2.

Popsupwhenthetemperature is out oftest range after the '**RUN TEST**' or "**RUN QC TEST**" button has been touched.

Solution: Move the device to the recommended operating temperature (15-30°C, 59-86°F) and wait until device temperature decreases to below $30^{\circ}C$ (86°F).

Low battery

Cas

Pops up when the 'RUN TEST' button is touched on the home screen, or the 'RUN QC TEST button is touched at 14% battery level. Case2.

Pops up when the battery level is 14% and the user touched Next to proceed to the next level of the QC test.

Solution: Connect the analyzer to a power source.

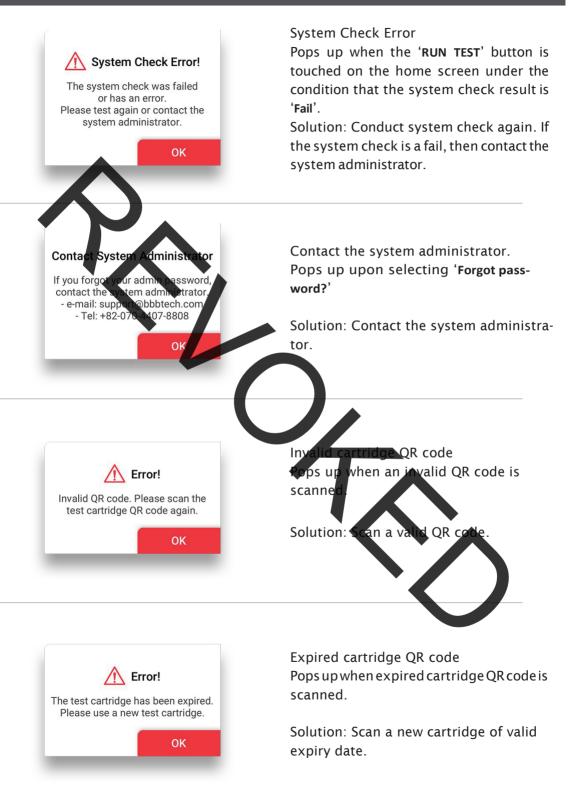
QC Test error

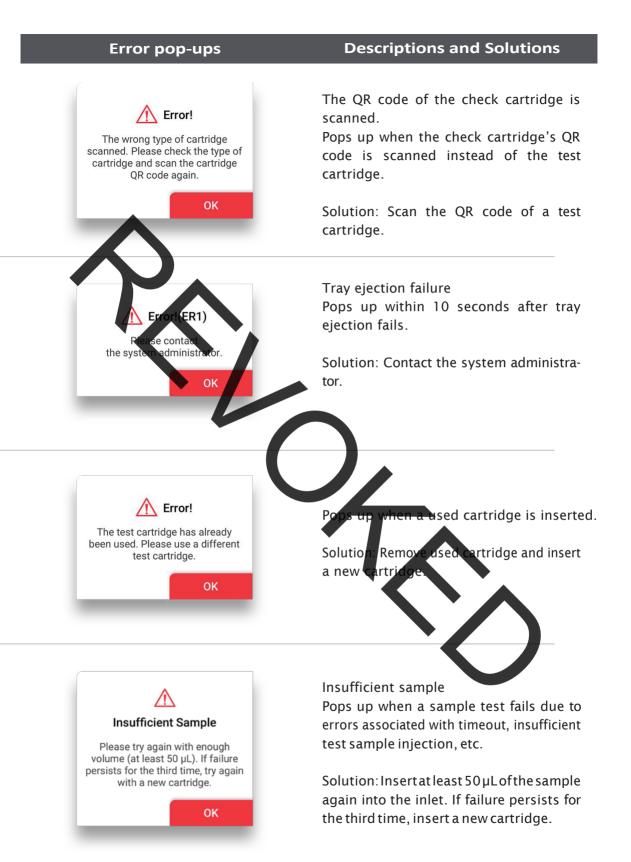
Pops up when the '**RUN TEST**' button is touched on the home screen under the condition that QC lock settings are turned '**ON**', and/or the QC TEST result is '**Fail**'.

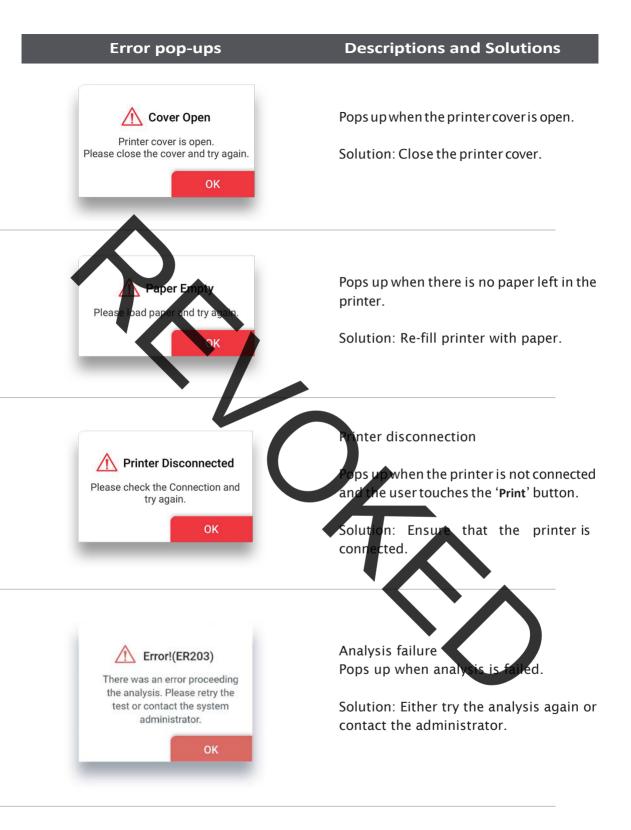
Solution: Conduct the test again. If the QC test is a fail, then contact the system administrator.

Error pop-ups

Descriptions and Solutions







Error pop-ups

Descriptions and Solutions

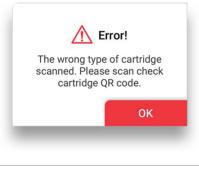
There was an error proceeding the analysis. Please retry the test or contact the system administrator.

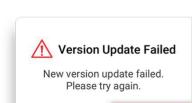
ОК

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volume (at least 50 µL), infailure persists for the third time, try agai with a new partridge.





OK

Analysis failure Pops up when analysis is failed.

Solution: Either try the analysis again or contact the administrator.

Insufficient solution Pops up when a solution test fails due to either timeout, insufficient solution injection, or solution reading failure.

Solution: Insert at least 50 µLof the control solution again into the inlet. If failure persists for the third time, insert a new tartridge.

The QR code of the test cartridge is scanned.

Pops up when the QR code of the test cartridge is scanned during the System Check process.

Solution: Scan the QR code of a check cartridge.

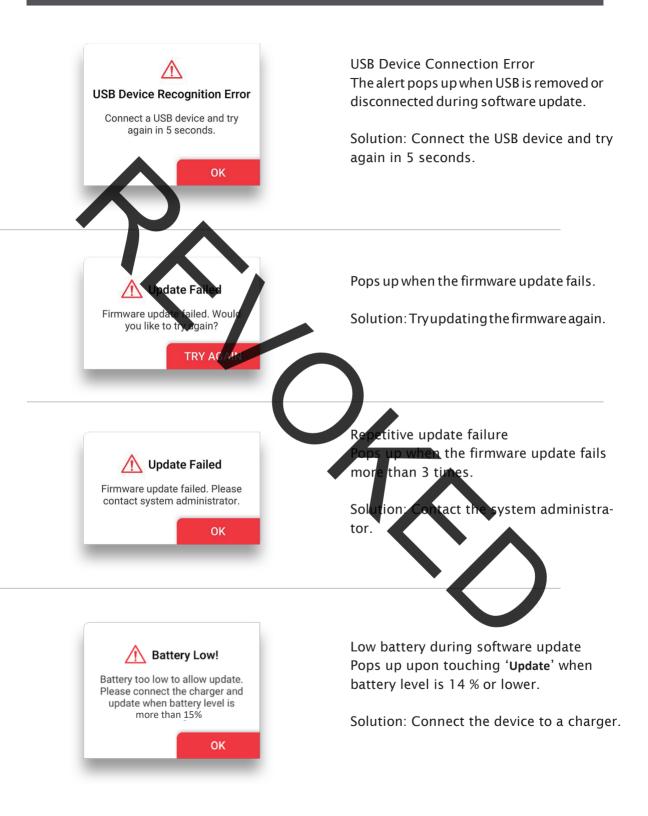
New version installation failu

Pops up upon new version installation failure during software update.

Solution: Re-try version update.

Error pop-ups

Descriptions and Solutions



10. Technical Information

Model Name	MB-100
CPU	MT8163B (Quad core)
Display type	5.5" HD display, Touch screen
Memory capacity	8GB ROM / 1GB RAM
Battery	Main battery : 2,700mAh 3.8V Sub battery : 2,500mAh 14.4V (3.7V 18650 4cell)
Power	rating : 12VDC, 1.5A blug interface : 5.5mm * 2.5mm
Dimension/weight	114 x 206 x 86mm / 1,300g
OS	Android 7.0
LOT reading	QR Code
Operating temperature (Device without a cartridge)	-10 - 45°C (14 - 113°F)
Storage environment	$-10-45^{\circ}C(14-113^{\circ}F)$, less than 80% of relative humidity
Wi-Fi	2.4GHz (IEEE 802.11/b/g/n)
Bluetooth	4.0
USB port	USB A
Software version	v1.0.0
Firmware version	MBMP100
FCC ID	2AKGP-MB100

11. Product Warranty

Product Warranty

Manufacturer guarantees to the original Purchaser of Sampinute[™] Analyzer that the Instrument is free from material defects in material and workmanship for a period of one (1) years from the date of the original purchase. This warranty does not guarantee the uninterrupted operation of the Instrument. Manufacturer's only liability and Purchaser's exclusive remedy under this warranty is that during the warranty period Manufacturer shall replace or repair, at no charge, and at the Manufacturer's sole discretion, any and all part of the Instrument proven to be defective. MANUFACTURER MAKES NO OTHER WARRANTIES AND EXPRESSLY EXCLUDES ANY IMPLIED WARRANTY OF MERCHANTABILITY, NONINFRINGEMENT OR FITNESS FOR A PARTICULAR USE. IN NO EVENTSHALL Manufacturer or distributor BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF USE OR REVENUE, OR PROFITS IN CONNECTION WITH OR ARISING OUT OF MANUFAC-TURER'S PROVISION OF THE INSTRUMENT, OR PURCHASER'S USE OF THE INSTRUMENT.

Tampering with any portion of the Instrument, abusing the Instrument or using the Instrument in a manner inconsistent with its User Manual will void this warranty. This warranty does not apply to any component that is damaged by improper storage in environmental conditions outside the recommended range, accident, or that is subject to alteration, misuse, tampering or abuse. Purchaser must file a warranty claim in writing and within the applicable warranty period to the USA Distributor.

Please contact - Celltrion USA, Inc. Customer Service Center, Sampinute@celltrion.com

Distributor Information

CELLTRION USA CELLTRION Celltrion USA, Inc. One Evertrust Plaza Suite 1207, Jersey City, New Jersey, 07302 Phone: 201-499-1844 Email: Sampinute@celltrion.com | www.celltrion.com

Manufacturer Information

BBB Inc.

7F, 22, Teheran-ro 81-gil, Gangnam-gu, Seoul, Republic of Korea www.bbbtech.com



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