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## OPERATIONAL BULLETIN

Bulletin #	Title		Date Issued
#2021-10-20-01	Information Regarding the Use of Access Bio, Inc. CareStart COVID-19 Antigen Tests		October 20, 2021
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N/A	Maine EMS	Maine EMS, Maine CDC	1 and Attachments
Approved By:	J. Sam Hurley, MPH, EMPS, NRP (Maine EMS Director)		

It has come to our attention that the Maine Department of Health and Human Services is having difficulty obtaining BinaxNOW testing kits due to a national shortage. As such, they have procured Access Bio, Inc. CareStart COVID-19 Antigen tests to supplement their BinaxNOW inventory. These tests function similarly, in that they are a lateral flow rapid antigen test. They can be performed by using both anterior nasal and nasopharyngeal swabbing; however, unless otherwise trained, all persons should utilize anterior nasal swabbing.

In order for Maine EMS entities to use this test, the individual completing the test MUST have completed the Access Bio CareStart Instructional Video (2 minutes and 41 seconds) that can be found online at <https://www.youtube.com/watch?v=Vh3ejrlo9vU> (QR code below links to the video). It is important that persons administering the test appropriately document which test that was used in the online reporting tool by selecting CareStart rather than BinaxNOW. All negative and positive results MUST be reported to Maine CDC using the RedCap Tool (see the Maine EMS Playbook for the link). The product inserts can be found as attachments to this bulletin.

Despite this being a different test, it does not change Maine EMS's current guidance as defined in the playbook and other rules about the utilization of rapid antigen testing. Agencies may request additional tests, including the Access Bio CareStart devices, by completing the [Maine DHHS Online Request form](#).

Don't hesitate to reach out to Maine EMS if you have any additional questions by emailing [maine.ems@maine.gov](mailto:maine.ems@maine.gov) or calling (207) 626-3860.



● Excellence ● Support ● Collaboration ● Integrity ●

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With offices located at the Central Maine Commerce Center, 45 Commerce Drive, Suite 1, Augusta, ME 04330

# CareStart™ COVID-19 Antigen Rapid Diagnostic Test for the Detection of SARS-CoV-2 Antigen

REF RCHM-02071

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

## Package Insert (Instructions for Use)

### Intended Use

The CareStart™ COVID-19 Antigen test is a lateral flow immunochromatographic assay intended for the qualitative detection of the nucleocapsid protein antigen from SARS-CoV-2 in nasopharyngeal or anterior nasal swab specimens directly collected from individuals who are either suspected of COVID-19 by their healthcare provider within first five days of symptom onset, or from individuals without symptoms or other epidemiological reasons to suspect COVID-19 when tested twice over two or three days with at least 24 hours and no more than 48 hours between tests. Testing is limited to laboratories certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA), 42 U.S.C. §263a, that meet the requirements to perform moderate, high or waived complexity tests. This test is authorized for use at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation.

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

Negative results should be treated as presumptive, and 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 decisions. 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, and confirmed with a molecular assay, if necessary, for patient management.

For serial testing programs, additional confirmatory testing with a molecular test for negative results may be necessary, if there is a high likelihood of SARS-CoV-2 infection, such as an individual with a close contact with COVID-19 or with suspected exposure to COVID-19 or in communities with high prevalence of infection. Additional confirmatory testing with a molecular test for positive results may also be necessary, if there is a low likelihood of SARS-CoV-2 infection, such as in individuals without known exposures to SARS-CoV-2 or residing in communities with low prevalence of infection.

The CareStart™ COVID-19 Antigen is intended for use in point of care settings and operated by healthcare professionals or trained users specifically instructed in the use of the CareStart™ COVID-19 Antigen and proper infection control procedures. The CareStart™ COVID-19 Antigen is only for use under the Food and Drug Administration's Emergency Use Authorization.

### Summary and Explanation of the Test

Since the first outbreak reported in December 2019, SARS-CoV-2 has spread rapidly worldwide, and the disease it causes has been named "Coronavirus Disease 2019" (COVID-19). Due to its highly contagious nature and global health crises, SARS-CoV-2 has been designated as a pandemic by the World Health Organization (WHO). SARS-CoV-2 continues to have devastating impacts on healthcare systems and the world economy including the U.S.

The CareStart™ COVID-19 Antigen is a rapid (approximately 10 minutes) chromatographic immunoassay for the direct detection of the presence or absence of SARS-CoV-2 antigens in the respiratory specimens taken from patients with signs and symptoms who are suspected of COVID-19, or taken from asymptomatic individuals being tested serially, as described in the authorized intended use. The test is intended to be interpreted visually in both laboratory and near patient testing environments without an instrument.

### Principles of the Test

The CareStart™ COVID-19 Antigen test is a lateral flow immunochromatographic assay for the detection of extracted nucleocapsid protein antigens specific to SARS-CoV-2 in nasopharyngeal or anterior nasal swab specimens directly collected from individuals who are suspected of COVID-19 by their healthcare provider within the first five days of symptom onset, or who are asymptomatic and undergoing serial testing, as described in the intended use.

Nasopharyngeal and anterior nasal swabs require a sample preparation step in which the sample is eluted into the extraction buffer solution. Extracted swab sample is added to the sample well of the test device to initiate the test. When the swab sample migrates in the test strip, SARS-CoV-2 viral antigens bind to anti-SARS-CoV-2 nucleocapsid protein antibodies conjugated to indicator and capture particles in the test strip forming an immune complex. The immune complex is then captured by the test line on the nitrocellulose membrane as it migrates through the strip.

Test results are interpreted at 10 minutes. The presence of two colored lines in the control line region "C" and test line region "T" indicates COVID-19 positive. The presence of one colored line in the control line region "C" indicates COVID-19 negative. No appearance of a colored line in the control region "C" indicates an invalid test

### Reagents and Materials Provided

Contents Name	Quantity (in a kit)	Description
<b>Test device</b>	20 each	Foil pouched test device containing one test strip which is encased in plastic device cassette.
<b>Extraction vial / cap</b>	20 vials and caps	The extraction vial contains extraction buffer solution.
<b>Nasal (or nasopharyngeal) swab</b>	20 each	Swabs for specimen collection.
<b>Positive control swab</b>	1 each	Recombinant SARS-CoV-2 nucleocapsid protein antigen is dried on the foam-tipped head.
<b>Negative control swab</b>	1 each	Blank swab
<b>Package insert</b>	1 each	Instructions for use
<b>Quick Reference Instructions (QRI)</b>	1 each	Quick reference instructions

The following materials are needed but not provided:

- Pair of gloves
- Timer
- Biohazard or sharps container
- Micropipette

### Warnings and Precautions

- For prescription and *in vitro* diagnostic use only.
- This product has not been FDA cleared or approved, but 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, high or waived complexity tests. This product is authorized for use at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation.
- The 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.
- This product has been authorized only for the detection of proteins from SARS-CoV-2, not for any other viruses or pathogens.
- As with all diagnostic tests, all results must be interpreted together with other clinical information available to the physician.
- Immediately use after opening the test device in the pouch.
- In order to obtain accurate results, the test must follow this package insert.
- Excess blood or mucus on the swab specimen may interfere with test performance and may yield a false-positive result. Avoid touching any bleeding areas of the nasopharynx when collecting specimens.
- Do not interpret the test result before 10 minutes and after 15 minutes starting the test.
- Inadequate or inappropriate sample collection, storage, and transport can result in incorrect results. If specimen storage is necessary, swabs can be placed into extraction buffer for up to four hours. Specimens should not be stored dry.
- Do not use if the test device package is damaged.
- Do not use the kit contents beyond the expiration date.
- Do not eat, drink, or smoke in the area where the specimens and kit contents are handled.
- Use appropriate precautions in the collection, handling, storage, and disposal of patient samples and used kit contents.
- Dispose of used contents as biohazardous wastes in accordance with federal, state, and local requirements.
- Nitrile or latex gloves should be worn when performing this test.
- If the extraction buffer contacts the skin or eye, flush with copious amounts of water.
- The SARS-CoV-2 positive control swabs have been prepared from recombinant viral proteins and do not contain infectious material.
- Handle all specimens as though they contain infectious agents.
- Observe established precautions against microbiological hazards throughout the procedure and follow the standard procedures for proper disposal of specimens.
- Reagents contain sodium azide, which is harmful if inhaled, swallowed, or exposed to skin. Contact with acids produces a very toxic gas. If there is contact with skin, wash immediately with plenty of water. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up.
- Do not interchange kit contents from different lots.
- Do not re-use any contents in the kit as they are single-use only.
- For additional information on hazard symbols, safety, handling and disposal of the components within this kit, please refer to the Safety Data Sheet (SDS) located at [accessbio.net](https://www.accessbio.net).

### Storage and Stability

- Store the test kit as packaged between 1 ~ 30°C.
- The reagents and materials in the CareStart™ COVID-19 Antigen are stable until the expiration date printed on the outer packaging. Do not use beyond the expiration date.
- The test device must remain in the sealed pouch until use.
- Do not freeze any contents of the kit.

### Quality Control

#### Internal Quality Control:

The CareStart™ COVID-19 Antigen contains a built-in internal procedural control that is included in the test device. A red-colored line appearing in the control region "C" is designed as an internal procedural control. The appearance of the procedural control line indicates that sufficient flow has occurred, and the functional integrity of the test device has been maintained. If the procedural control line does not develop in 10 minutes, the test result is considered invalid and retesting with a new device is recommended. If the internal procedural control line is still absent in the retest, please contact the Technical Support at +1-888-898-1270 (Available Hours: Mon. to Fri.: 8 a.m. – 5 p.m.) or [TShelp@accessbio.net](mailto:TShelp@accessbio.net) (24/7 available).

#### External Control:

External control is used to demonstrate that the test device and test procedure perform properly. It is recommended that positive and negative external control swabs are run once with every new lot, shipment, and each new user. External positive and negative control swabs are provided in the kit. The external control should be tested using the swab test procedure provided in this package insert or the quick reference instruction card. If the external control results are invalid, please contact the Technical Support at +1-888-898-1270 (Available Hours: Mon. to Fri.: 8 a.m. – 5 p.m.) or [TShelp@accessbio.net](mailto:TShelp@accessbio.net) (24/7 available) before testing patient specimens.

### Specimen Collection and Handling

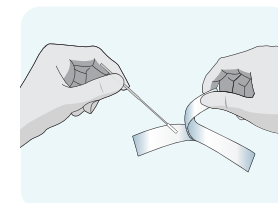
Acceptable specimen type for testing with the CareStart™ COVID-19 Antigen is a direct nasopharyngeal and anterior nasal swab specimen. It is essential that correct specimen collection and preparation methods be followed. Inadequate specimen collection, improper specimen handling and/or transport may yield false results; therefore, specimen collection requires specific training and guidance due to the importance of specimen quality to obtain accurate test results. Specimens are stable for 4 hours in extraction buffer. Refer to the CDC Interim Guidelines for Collecting, Handling, and Testing Clinical Specimens from Persons for Coronavirus Disease 2019 (COVID-19) <https://www.cdc.gov/coronavirus/2019-nCoV/lab/guidelines-clinical-specimens.html>

### Swab Sample Collection Procedure

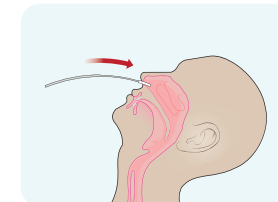
#### Nasopharyngeal Swab Collection

##### Procedural Notes

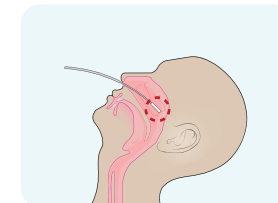
- Process the test sample immediately after collection.
- Use only recommended nasopharyngeal swab for specimen collection.
- Collect the specimen wearing safety gloves to avoid contamination.
- Do not touch the tip (specimen collection area) of the swab.
- Collect samples as soon as possible within 5 days of symptom onset.



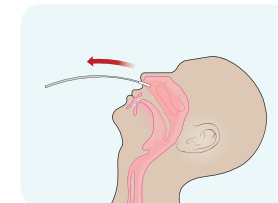
1 Remove a nasopharyngeal swab from the pouch.



2 Tilt patient's head back 70 degrees. Gently and slowly insert the swab into one of the patient's nostrils until it reaches the posterior nasopharynx; keep insert until resistance is encountered or the distance is equivalent to that from the ear to the nostril of the patient.



3 Slowly rotate 3-5 times the swab over the surface of the posterior nasopharynx.

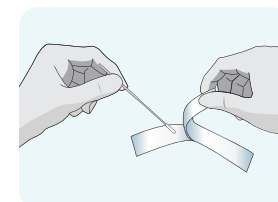


4 Leave swab in place for several seconds to absorb secretions. Slowly remove the swab from the nostril while rotating it.

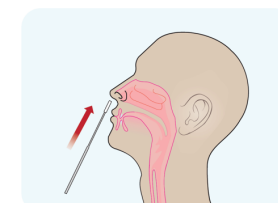
### Anterior Nasal Swab Collection

#### Procedural Notes

- Process the test sample immediately after collection.
- Use only provided or recommended anterior nasal swab for specimen collection.
- Collect the specimen wearing safety gloves to avoid contamination
- Do not touch the tip (specimen collection area) of the swab.
- Collect samples as soon as possible within 5 days of symptom onset.



1 Remove a nasal swab from the pouch.



2 Insert the swab into one of patient's nostrils up to 1 inch from the edge of the nostril.

## Description of Symbols

**IVD** *In vitro* diagnostic medical device  
Indicates a medical device that is intended to be used as an *in vitro* diagnostic medical device.

**i** Consult instructions for use  
Indicates the need for the user to consult the instructions for use.

**M** Manufacturer  
Indicates the medical device manufacturer.

**LOT** Batch code  
Indicates the manufacturer's batch code so that the batch or lot can be identified.

**⊗** Do not re-use  
Indicates a medical device that is intended for one use, or uses on a single patient during a single procedure.

**🕒** Use by date  
Indicates the date after which the medical device is not to be used.

**CONTROL +** Positive control  
Indicates a control material that is intended to verify the results in the expected positive range.

**CONTROL -** Negative control  
Indicates a control material that is intended to verify the results in the expected negative range.

**REF** Catalog number  
Indicates the manufacturer's catalog number so that the medical device can be identified.

**⚠** Caution  
Indicates the need for the user to consult the instructions for use for important cautionary information such as warnings and precautions that cannot, for a variety of reasons, be presented on the medical device itself.

**📅** Date of manufacture  
Indicates the date when the medical device was manufactured.

**🌡** Temperature limit  
Indicates the temperature limits to which the medical device can be safely exposed.

**🚫** Do not use if the package is damaged  
Indicates a medical device that should not be used if the package has been damaged or opened.

**📦** Contains sufficient for <n> tests  
Indicates the total number of IVD tests that can be performed with the IVD.

**R** Prescription-only

**Manufactured by:**  
**Access Bio, Inc.**  
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Somerset, NJ 08873, USA  
Tel: 732-873-4040  
Fax: 732-873-4043  
Email: [info@accessbio.net](mailto:info@accessbio.net)  
Website: [www.accessbio.net](http://www.accessbio.net)  
**Technical Support in the U.S.**  
Tel: +1-888-898-1270 (Toll Free)  
Email: [TShelp@accessbio.net](mailto:TShelp@accessbio.net)

**Manufactured for:**  
**Intrivo Diagnostics, Inc.**  
2021 Santa Monica Blvd, #11  
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Tel: 888-965-0301  
Fax: 888-965-0302  
Email: [info@intrivo.com](mailto:info@intrivo.com)  
Website: [www.intrivo.com](http://www.intrivo.com)







Quick Reference Instructions for *CareStart™* COVID-19 Antigen

## Rapid Diagnostic Test for Detection of SARS-CoV-2 Antigen

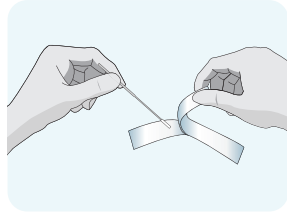
## For Emergency Use Authorization (EUA) Only

The *CareStart™* COVID-19 Antigen test is a lateral flow immunochromatographic assay intended for the qualitative detection of the nucleocapsid protein antigen from SARS-CoV-2 in nasopharyngeal or anterior nasal swab specimens directly collected from individuals who are either suspected of COVID-19 by their healthcare provider within first five days of symptom onset, or from individuals without symptoms or other epidemiological reasons to suspect COVID-19 when tested twice over two or three days with at least 24 hours and no more than 48 hours between tests.

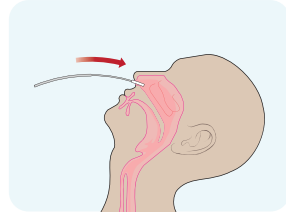
**IMPORTANT:**

- Refer to the Package Insert for Warnings and Precautions, Specimen Collection Procedures, Storage and Handling Conditions, and Quality Control Recommendations.
- Warning and Precautions - All kit components can be discarded as Biohazard waste according to local guidelines. Refer to the product safety data sheet for risk and safety phrases and disposal information.
- Biotin Interference: False negative results may occur in patients who have indicated or whose clinical status or history would indicate they are currently taking high doses of biotin (> 10 mg per day). Biotin levels of 2.5 µg/mL have been demonstrated to result in false negative test results.
- The extracted sample must be used within 4 hours of preparation when stored at room temperature.
- Refer to the CDC Interim Guidelines for Collecting, Handling, and Testing Clinical Specimens from Persons for Coronavirus Disease 2019 (COVID-19) <https://www.cdc.gov/coronavirus/2019-nCoV/lab/guidelines-clinical-specimens.html>

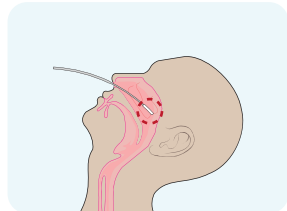
## SPECIMEN COLLECTION AND HANDLING

*Nasopharyngeal (NP) Swab Collection*

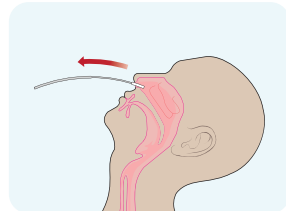
- 1 Remove a nasopharyngeal swab from the pouch.



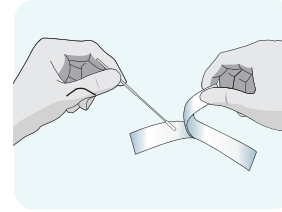
- 2 Tilt patient's head back 70 degrees. Gently and slowly insert the swab into one of patient's nostrils until it reaches the posterior nasopharynx; keep insert until resistance is equivalent to that from the ear to the nostril of the patient.



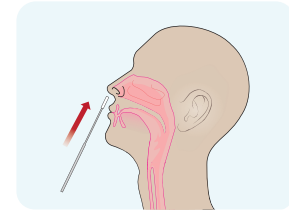
- 3 Slowly rotate 3-5 times the swab over the surface of the posterior nasopharynx.



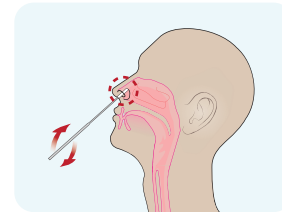
- 4 Leave swab in place for several seconds to absorb secretions. Slowly remove the swab from the nostril while rotating it.

*Anterior Nasal Swab Collection*

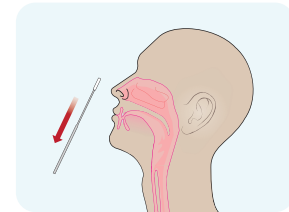
- 1 Remove a nasal swab from the pouch.



- 2 Insert the swab into one of patient's nostrils up to 1 inch from the edge of the nostril.



- 3 Slowly roll the swab 5 times over the surface of the nostril. Using the same swab, repeat this collection process in the other nostril. Take approximately 15 seconds to collect the specimen.



- 4 Slowly remove the swab from the nostril while rotating it.

In the USA, this product has not been FDA cleared or approved, but has been authorized by FDA under an EUA for use by authorized laboratories; use by laboratories certified under the CLIA, 42 U.S.C. §263a, that meet requirements to perform moderate, high or waived complexity tests. This product is authorized for use at the Point of Care (POC), i.e., in patient care settings operating under a CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation. This product has been authorized only for the detection of proteins from SARS-CoV-2, not for any other viruses or pathogens. In the USA, the 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 diagnostics for detection and/or diagnosis of the virus that causes 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.

**Access Bio, Inc.**

65 Clyde Road, Suite A  
Somerset, NJ 08873, USA

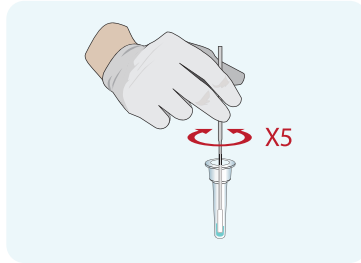
Tel: 732-873-4040  
Fax: 732-873-4043  
Email: [info@accessbio.net](mailto:info@accessbio.net)  
Website: [www.accessbio.net](http://www.accessbio.net)

**Technical Support**  
Tel: 888-898-1270 (Toll Free)  
Email: [TShelp@accessbio.net](mailto:TShelp@accessbio.net)

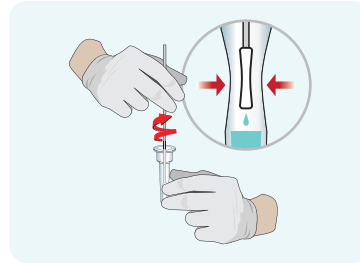
## TEST PROCEDURES



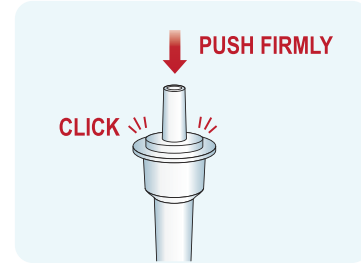
- 1 Peel off aluminum foil seal from the top of the extraction vial containing the extraction buffer.



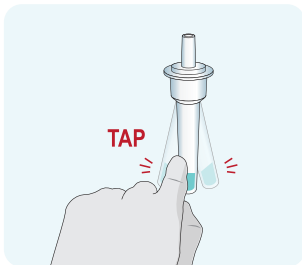
- 2 Place the swab into the extraction vial. Rotate the swab vigorously at least 5 times.



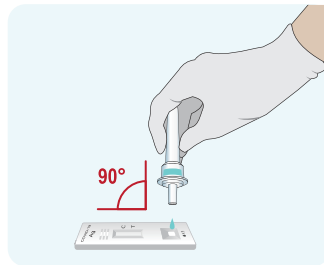
- 3 Remove the swab by rotating against the extraction vial while squeezing the sides of the vial to release the liquid from the swab. Properly discard the swab.



- 4 Close the vial by pushing the cap firmly onto the vial.



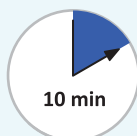
- 5 Mix thoroughly by flicking the bottom of the tube.



- 6 Invert the extraction vial and hold the sample vertically above the sample well. Squeeze the vial gently. Allow three (3) drops of sample to fall into the sample well.

**NOTE:** Refer to the Package Insert for the cautions.

## Start the timer



Read the result at 10 minutes. The test result should not be read after 15 minutes.

**Warning**

The false positive, false negative, or invalid results may occur if the test is interpreted outside of the interpretation window.



## Result Interpretation

**Positive**

SARS-CoV-2 antigen present; does not rule out co-infection with other pathogens. The color intensity in the test region will vary depending on the amount of SARS-CoV-2 antigen present in the sample. Any faint colored line(s) in the test region(s) should be considered as positive.

**Negative**

Negative results are presumptive. Negative test results do not preclude infection and should not be used as the sole basis for treatment or other patient management decisions, including infection control decisions, particularly in the presence of clinical signs and symptoms consistent with COVID-19, or in those who have been in contact with the virus. It is recommended that these results be confirmed by a molecular testing method, if necessary for patient management.

**Invalid**

If the red-colored line in the control region "C" is not visible, the result is invalid. Re-run the test one time using the remaining specimen in the extraction vial if an invalid result is obtained during initial testing.

**External Control Swab Test:** It is recommended that positive and negative external control swabs are run once with every new lot, shipment, and each new user. External positive and negative control swabs are provided in the kit. The external control should be tested using the nasopharyngeal swab test procedure provided in this package insert or the quick reference instruction card.