

# GenBody COVID-19 Ag

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

## Instructions for Use (IFU)

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## 1. INTENDED USE

The GenBody COVID-19 Ag is an immunochromatographic rapid diagnostic test (RDT) intended for the qualitative detection of nucleocapsid protein antigen from SARS-CoV-2 in direct nasopharyngeal (NP) or anterior nasal (AN) swab specimens from individuals who are suspected of COVID-19 by their healthcare provider within the first six 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 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.

Results are for the identification of SARS-CoV-2 nucleocapsid antigen. Antigen is generally detectable in nasopharyngeal (NP) or anterior nasal (AN) 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 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 may be confirmed with a molecular assay, if necessary, for patient management. 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 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.

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 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. [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 COVID-19 or residing in communities with low prevalence of infection.](#)

The GenBody COVID-19 Ag is intended for use by medical professionals or operators trained in performing tests in point of care settings. The GenBody COVID-19 Ag is only for use under the Food and Drug Administration's Emergency Use Authorization.

## 2. EXPLANATION OF THE TEST

COVID-19 (short for 'Coronavirus Disease 2019') is a disease first recognized in 2019 that is caused by a type of novel coronavirus called SARS-CoV-2. Due to its rapid spread, the World Health Organization (WHO) recognized the disease as a global pandemic on March 11, 2020. Individuals infected with SARS-CoV-2 may have a range of symptoms from asymptomatic infection to severe respiratory illness and even death. The virus is spread primarily from person to person through respiratory particles, even by individuals without symptoms.

The GenBody COVID-19 Ag test is a rapid, qualitative immunochromatographic assay for the determination of the presence of SARS-CoV-2 antigens in human nasopharyngeal or anterior nasal swab specimens. The test strip in each device contains mouse monoclonal antibodies to the nucleocapsid protein (NP) of SARS-CoV-2. When the sample contains SARS-CoV-2 antigens, anti-SARS-CoV-2 monoclonal antibodies that are coupled with colloidal gold bind to SARS-CoV-2 antigens in the sample to form an antigen-antibody complex. This complex is then captured by anti-SARS-CoV-2 monoclonal antibodies immobilized on the Test line, and a visible line appears on the membrane, while unbound dye complexes continue to migrate beyond the test line area. Unbound protein-

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dye complexes are later captured at the Control line. Formation of the Control line serves as an internal control. If the Control line does not appear within the designated incubation time (i.e., 15 - 20 minutes), the result is invalid and the test should be repeated with a new sample.

### 3. MATERIALS PROVIDED

Kit Component	Quantity	Description
GenBody COVID-19 Ag Test Device	Twenty-five (25) single use Test Devices	Individually pouched devices with a desiccant. Test Device contains one reactive test strip.
		The test strip contains a membrane coated with mouse anti-SARS-CoV-2 NP antibodies for the test line and mouse anti-Nus tag antibodies for the control line, and a conjugate pad impregnated with Mouse anti-SARS-CoV-2 NP antibodies and recombinant Nus tag antigens
Extraction Solution	Two (2) bottles containing 9 mL of Extraction Solution	Buffer with detergent and preservative (< 0.1% sodium azide)
Extraction Tube	Twenty-five (25) single use tubes	Flexible plastic tube for extraction of sample
Dropper Tips	Twenty-five (25) single use dropper tips	Disposable of the Extraction Tube for dispensing the extracted sample
Sterilized Nasopharyngeal or Anterior Nasal Swabs	Twenty-five (25) single use specimen sampling swabs	Swab for nasopharyngeal or anterior nasal sample collection with a flexible/breakable handle
External Positive Control Swab	One (1) single use swab	Individually pouched swab coated with non-infectious recombinant SARS-CoV-2 protein antigen on the head
External Negative Control Swab	One (1) single use swab	Individually pouched swab coated with buffer on the head
Instructions for Use (IFU)	One (1)	Instructions for use
Quick Reference Instructions (QRI)	One (1)	Quick reference instructions

### 4. MATERIALS REQUIRED BUT NOT PROVIDED

- Timer
- Any necessary personal protective equipment including gloves

## 5. QUALITY CONTROL

### Internal Quality Control

Each GenBody COVID-19 Ag Test Device has a built-in internal procedural control. The reddish-purple line appearing at the “C” position is an internal procedural control. This procedural control line indicates that sufficient flow has occurred, and the functional integrity of the test device has been maintained. A distinct reddish-purple Control line should always appear if the test has been performed correctly. If the Control line does not appear, the test result is invalid and a new test should be performed.

### External Quality Control

Good laboratory practice includes the use of external controls to ensure proper kit performance. Using the external controls provided in the kit, it is recommended that external control testing be performed with each new operator and before using a new lot or shipment of GenBody COVID-19 Ag kits to confirm the expected Quality Control (QC) results. The frequency of additional QC tests should be determined according to your laboratory's standard QC procedures and local, State and Federal regulations or accreditation requirements. Upon confirmation of the expected results, the kit is ready for use with patient specimens. The GenBody COVID-19 Ag kit contains two control swabs. Test the control swabs in the same manner as patient specimens. When the positive control is tested, reddish-purple lines appear at the C and T positions. When the negative control is tested, a reddish-purple line appears at the C position only. If external controls do not perform as expected, do not use the test results and contact Technical Support at (888) 552-5204 or [ts@genbodyamerica.com](mailto:ts@genbodyamerica.com).

The use of positive and negative controls from other commercial kits has not been established with the GenBody COVID-19 Ag test.

## 6. SPECIMEN COLLECTION AND STORAGE

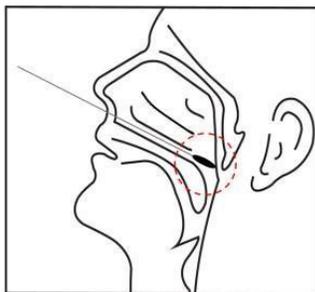
### Swab Specimen Collection Procedure

Only the swab provided in the kit is to be used for swab specimen 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. 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 Storage and Handling Procedure

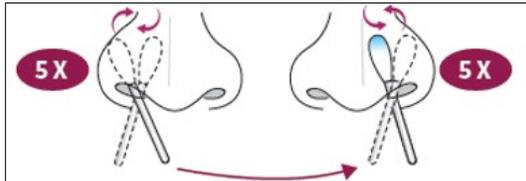
For the best performance, swab specimens collected from patients should be tested immediately after collection. The collected swab specimen can be tested for up to 60 minutes following specimen collection. If the specimen is extracted from the swab, the extracted specimen can be tested for up to 5 hours if stored between 2-30°C.

### A. Nasopharyngeal Swab Sample Collection Procedure



- 1) Remove a nasopharyngeal swab from the pouch.
- 2) With the patient's head tilted backwards at 70 degrees, carefully insert the swab into the nostril that presents the most secretion under visual inspection.
- 3) Gently and slowly insert the 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.
- 4) Leave the swab in place for several seconds to absorb secretions.
- 5) Rotate the swab 3-5 times against the posterior nasopharynx.
- 6) Using gentle rotation, remove the swab from the nostril; insert into the Extraction Tube.
- 7) All specimens should be tested as soon as they are prepared.

## B. Anterior Nasal Swab Sample Collection Procedure



- 1) Remove a nasal anterior swab from the pouch
- 2) Insert the swab ½ to ¾ of an inch into the RIGHT nostril.
- 3) In a circular motion, rub the swab around the entire wall of the nostril with some pressure. This should be performed for at least 5 circles and 15 seconds
- 4) Withdraw the swab and repeat the same process on the LEFT nostril
- 5) Withdraw the swab from the second nostril. Immediately after BOTH nostrils have been swabbed, place the swab into the extraction tube
- 6) All specimens should be tested as soon as they are prepared.

## 7. TEST PROCEDURES

### Procedural Notes

- Allow Test Devices, reagents, specimens, and/or controls to equilibrate to room temperature (15~30°C) prior to testing.
- Do not open the foil pouch until one is ready to perform the test.
- Label the device with the patient identification or control to be tested.
- Place Test Device on a level surface.
- Used specimens, swab, tube and Test Device should be treated as biohazardous waste.

### Specimen Swab Test Procedure

<p><b>Step 1</b></p>		<p>Add the Extraction Solution to the Fill Line indicated on the Extraction Tube (400 µL).</p>
<p><b>Step 2</b></p>		<p>A. Insert the collected specimen swab into the Extraction Solution. B. Mix by squeezing the tube and simultaneously rotating the Swab 8 – 10 times. Remove the swab from the Extraction Tube while pressing the swab against the side of the tube to extract the solution.</p> <p><b>Caution: Inadequate swab rotation can result in incorrect results.</b></p>

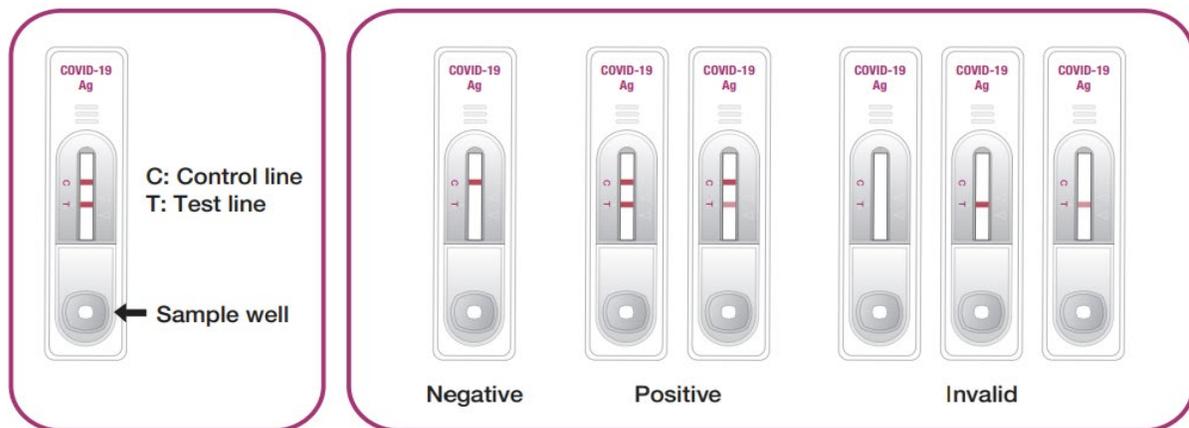
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<b>Step 3</b>		Place the Dropper Tip on the Extraction Tube.
<b>Step 4</b>		Add 4 drops (~100 µL) of the solution to the center of the sample well of the Test Device.
<b>Step 5</b>		Read the test result at 15-20 minutes. Test results should not be read after 20 minutes.  <b>Caution: False positive or false negative results can occur if test device is read before 15 minutes or after 20 minutes</b>

## 8. INTERPRETATION OF THE RESULTS



- 1) **Positive result:** Two reddish-purple lines appear in the test window, one on the test line position (T) and the other on the control line position (C).

Note: The Test line (reddish-purple line) may vary in shade and intensity (light or dark, weak or strong) depending on the concentration of antigen detected. The intensity of the Control line should not be compared to that of the Test line for the interpretation of the test result. Any faint visible reddish-purple Test line should be interpreted as positive.

Note: 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.

- 2) **Negative result:** Only one reddish-purple line on the control line (C) position appears with no line on the test line position (T).

Note: If the first test result is negative for individuals without symptoms, individuals should be retested with a second test after 24 hours but no more than 48 hours. Negative results should be treated as presumptive and confirmed with a molecular assay, if necessary, for patient management.

Note: For serial testing programs, additional confirmatory testing with a molecular test for negative results may be necessary after second negative result for asymptomatic patients if there is a high likelihood of SARS-CoV-2 infection, such in an individual with as a close contact with COVID-19 or with suspected exposure to COVID-19 or in communities with high prevalence of infection.

- 3) **Invalid result:** If a line does not appear on the control line position (C) in 15 minutes, the test result is invalid. Re-test with a new GenBody COVID-19 Ag Test Device.

## 9. STORAGE AND STABILITY

- GenBody COVID-19 Ag kit should be stored between 2 to 30 °C (35.6 to 86 °F).
- Kit components in the GenBody COVID-19 Ag kit are stable until the expiration date printed on the label.
- The Test Device must remain in the sealed foil pouch until use.

## 10. WARNINGS & PRECAUTIONS

- 1) For *in vitro* diagnostic use only.
- 2) This product has not been FDA cleared or approved; but has been authorized by FDA under an EUA for use by laboratories certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA), 42 U.S.C. §263a, 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.
- 3) Federal Law restricts this device to sale by or on the order of a licensed practitioner (US only).
- 4) This product has been authorized only for the detection of proteins from SARS- CoV-2, not for any other viruses or pathogens.
- 5) 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 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.
- 6) Laboratories within the United States and its territories are required to report all results to the appropriate public health laboratories.
- 7) Do not use kit past its expiration date.
- 8) Do not store or test specimens in viral transport media, as it may result in false positive or false negative results.
- 9) Wear appropriate personal protection equipment and gloves when running each test and handling patient specimens. Change gloves between handling of specimens.
- 10) The Extraction Solution in this kit contains a detergent and a preservative that will inactivate cells and virus particles. Samples eluted in this solution are not suitable for culture.
- 11) Test Devices are single use only and should be discarded after use. Do not re-use the Test Device.
- 12) Proper sample collection, storage and transport are essential for correct results. Specimens should be prepared in accordance with the instructions provided in the "Specimen Collection and Storage" section.
- 13) Excess blood or mucus on the swab specimen may interfere with test performance, potentially yielding an inaccurate result. Avoid touching any bleeding areas of the nasopharynx when collecting specimens.
- 14) Users should test specimens as quickly as possible after specimen collection.
- 15) Exposure to humidity may decrease the stability of the reagents. The test should be performed immediately after removing the device from the foil pouch. Do not use if the pouch is damaged or opened.

- 16) False positive or false negative results can occur if test device is read before 15 minutes or after 20 minutes
- 17) Extraction Buffer volume below the recommended amount may interfere with test performance, potentially yielding an inaccurate result.
- 18) Inadequate swab rotations may result in inaccurate results.
- 19) Sample volume other than the recommended amount may interfere with test performance, potentially yielding an inaccurate result.
- 20) Test devices and swabs should be used immediately upon opening; do not remove Test Devices from the pouch until just before use.
- 21) Do not use the Test Device if the desiccant included in the foil pouch has changed from yellow to green.
- 22) To ensure delivery of adequate volume, hold the tube vertically and add drops slowly.
- 23) Dispose of used contents as biohazardous wastes in accordance with federal, state, and local requirements.
- 24) Test results must be evaluated in conjunction with other clinical data available to the licensed practitioner.
- 25) Do not use the kit components from different lots.
- 26) Swabs included in the kit are approved for use with the GenBody COVID-19 Ag test. Do not use other swabs.
- 27) Do not smoke, eat, or drink in areas in which specimens or kit reagents are handled.
- 28) If the extraction solution contacts the skin or eye, flush with copious amounts of water.
- 29) For additional information on safety, handling, and disposal of the components within this kit, including the Safety Data Sheet (SDS), please email or call Technical Support at [ts@genbodyamerica.com](mailto:ts@genbodyamerica.com) or (888)-552-5204.

## 11. LIMITATIONS

- 1) This device is for professional *in vitro* diagnostic use only.
- 2) This device is only used for testing direct human nasopharyngeal or anterior nasal swab specimens. Viral transport media (VTM) should not be used with this test.
- 3) This test is not for use in at-home testing settings.
- 4) The amount of antigen in a sample may decrease as the duration of illness increases. Specimens collected after six days are more likely to be negative compared to RT-PCR.
- 5) A negative test result may occur if the level of antigen in a sample is below the detection limit of the test or if the sample was collected improperly.
- 6) The performance of the GenBody COVID-19 Ag was evaluated using the procedures provided in these Instructions for Use (IFU) only. Modifications to these procedures may alter the performance of the test.
- 7) This test detects both viable (live) and non-viable SARS-CoV-2. Test performance depends on the amount of viral antigen in the sample and may or may not correlate with viral culture results performed on the same sample.
- 8) Failure to follow the Test Procedure may adversely affect test performance and/or invalidate the test result.
- 9) Positive test results do not rule out co-infections with other pathogens.
- 10) Negative results do not rule out SARS-CoV-2 infection, particularly in those who have been in contact with the virus. Follow-up testing with a molecular diagnostic should be considered to rule out infection in these individuals.
- 11) Negative test results are not intended to rule in other non-SARS viral or bacterial infections.
- 12) Negative results should be treated as presumptive and confirmed with a molecular assay for clinical management, if necessary.
- 13) The clinical performance of this test has not been evaluated in patients without symptoms or other epidemiological reasons to suspect COVID-19, or for serial screening when tested twice over three days with at least 48 hours between tests. A study to support use in these individuals will be completed.
- 14) The performance of this test was established based on the evaluation of a limited number of clinical specimens collected between January 2021 to February 2021 (nasopharyngeal) and between April 2021 to July 2021 (anterior nasal). The clinical performance has not been established in 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.

## 12. CONDITIONS OF AUTHORIZATION FOR LABORATORY

The GenBody COVID-19 Ag 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: (<https://www.fda.gov/medical-devices/coronavirus-disease-2019-covid-19-emergency-use-authorizations-medical-devices/in-vitro-diagnostics-euas-antigen-diagnostic-tests-sars-cov-2>)

However, to assist clinical laboratories using the GenBody COVID-19 Ag (“your product” in the conditions below), the relevant Conditions of Authorization are listed below:

- A. Authorized laboratories\* using your product must 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.
- B. Authorized laboratories using your product must use your product as outlined in the authorized labeling. Deviations from the authorized procedures -- including from the authorized instruments, authorized clinical specimen types, authorized control materials, other authorized ancillary reagents, and authorized materials required to use your product -- are not permitted.
- C. Authorized laboratories that receive your product must notify the relevant public health authorities of their intent to run your product prior to initiating tests.
- D. Authorized laboratories using your product must have a process in place for reporting test results to healthcare providers and relevant public health authorities, as appropriate.
- E. Authorized laboratories must collect information on the performance of your product and report to DMD/OHT7-OIR/OPEQ/CDRH (via email: [CDRH-EUA-Reporting@fda.hhs.gov](mailto:CDRH-EUA-Reporting@fda.hhs.gov)) and GenBody Inc. (via email: [ts@genbodyamerica.com](mailto:ts@genbodyamerica.com)) 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.
- F. 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.
- G. GenBody Inc. and authorized laboratories using your product must 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.

\*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, moderate or waived complexity tests. This product is authorized for use at the Point of Care (POC) i.e. in patient care settings operating under CLIA Certificate of Waiver, Certificate of Compliance, or Certificate of Accreditation” as “authorized laboratories.”

## 13. PERFORMANCE CHARACTERISTICS

### a. Analytical Sensitivity: Limit of Detection (LoD)

The Limit of Detection (LoD) of the GenBody COVID-19 Ag test was determined using serial dilutions of the heat-inactivated SARS-CoV-2 (USA-WA1/2020). Testing sample was prepared by spiking the strain into the pooled human nasopharyngeal swab matrix obtained from healthy volunteers confirmed negative by RT-PCR. The initially determined LoD by two-fold serial dilution was confirmed by testing in 20 replicates. The confirmed LoD for the GenBody COVID-19 Ag was  $1.11 \times 10^2$  TCID<sub>50</sub>/mL.

### b. High-dose hook effect

The GenBody COVID-19 Ag was tested up to  $1.15 \times 10^7$  TCID<sub>50</sub>/mL of heat-inactivated SARS-CoV-2 (USA-WA1/2020) and no high-dose hook effect was observed.

### c. Endogenous Interfering Substances

The interference study was performed for the 22 potentially interfering substances that may be found in the upper respiratory tract. The positive (2x LoD SARS-CoV-2) and negative samples were tested with the addition of potentially interfering substances. The performance of GenBody COVID-19 Ag was not affected by any of the potentially interfering substances listed in the table below at the concentrations tested.

Substance	Concentration
Whole blood	5%
NasoGEL (NeilMed)	5% v/v
Phenylephrine (Nasal Drop)	10% v/v
Acetylsalicylic acid	20 mg/ml
Beclomethasone	0.5 mg/ml
Benzocaine (Vicks)	5%
Flunisolide	3 mg/ml
Mucin (Bovine submaxillary gland)	0.5%
Menthol	10 mg/ml
Oxymetazoline (Afrin)	15% v/v
Tobramycin	40 mg/ml

Substance	Concentration
Zanamivir	3.3 mg/ml
Oseltamivir phosphate (Tamiflu)	12 mg/mL
Cromolyn (Nasal Spray)	40 mg/ml
Homeopathic (Alkalol)	5% v/v
Zicam Cold Remedy	5% v/v
Mucous	35% v/v
Guaiacol glyceryl ether	20 mg/ml
Chloraseptic (Menthol/Benzocaine)	1.5 mg/mL
Chloraseptic spray (phenol)	15% v/v
Mupirocin	10 mg/mL
Fluticasone Propionate	5% v/v

### d. Analytical Specificity: Cross-reactivity and Microbial interference

Cross-reactivity and interference studies were performed for related pathogens, high prevalence disease agents, and normal or pathogenic flora that are reasonably likely to be encountered in the clinical specimen of the nasal cavity. Each organism and virus (15 bacteria and 29 viruses) was tested in both the absence and presence of inactivated SARS-CoV-2 (SARS-CoV-2 isolate USA-WA1/2020) at the 2x LoD. All testing samples were prepared in the negative clinical nasopharyngeal matrix. No cross reactivity or interference was observed at the concentrations tested as shown in the table below.

Microorganism	Concentration
Adenovirus (C1 Ad. 71)	$1.41 \times 10^6$ TCID <sub>50</sub> /mL
Enterovirus D68	$5.01 \times 10^5$ TCID <sub>50</sub> /mL
Human Metapneumovirus (hMPV)	$3.80 \times 10^6$ TCID <sub>50</sub> /mL

Microorganism	Concentration	
Hepatitis B Virus (Performance panel, Seracare,	DNA genotype-A	$5.5 \times 10^7$ IU/ mL
	DNA genotype-B	$4.2 \times 10^5$ IU/ mL
	DNA genotype-C	$1.0 \times 10^8$ IU/ mL

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Influenza A H1N1(New Cal/20/99)	1.15 x 10 <sup>7</sup> TCID <sub>50</sub> /mL
Influenza B (Florida/02/06)	1.41 x 10 <sup>6</sup> TCID <sub>50</sub> /mL
Parainfluenza virus 1	9.12 x 10 <sup>8</sup> TCID <sub>50</sub> /mL
Parainfluenza virus 2	4.17 x 10 <sup>5</sup> TCID <sub>50</sub> /mL
Parainfluenza virus 3	6.61 x 10 <sup>6</sup> TCID <sub>50</sub> /mL
Parainfluenza virus 4A	1 x 10 <sup>6.58</sup> TCID <sub>50</sub> /mL
MERS-coronavirus	3.55 x 10 <sup>5</sup> TCID <sub>50</sub> /mL
Human coronavirus 229E	4.17 x 10 <sup>5</sup> TCID <sub>50</sub> /mL
Human coronavirus OC43	1.26 x 10 <sup>6</sup> TCID <sub>50</sub> /mL
Human coronavirus NL63	1.41 x 10 <sup>6</sup> TCID <sub>50</sub> /mL
SARS-coronavirus (in PBS)	1 x 10 <sup>8</sup> pfu /mL
SARS-coronavirus (Vero E6 Cell DMEM)	1 x 10 <sup>8</sup> pfu /mL
Respiratory syncytial virus - Type A	3.80 x 10 <sup>6</sup> TCID <sub>50</sub> /mL
Respiratory syncytial virus - Type B	1 x 10 <sup>7</sup> TCID <sub>50</sub> /mL
Rhinovirus Type 1A	1 x 10 <sup>6.58</sup> TCID <sub>50</sub> /mL
Rhinovirus Type 14	9.8 x 10 <sup>7</sup> pfu /mL
Rhinovirus Type 42	4.2 x 10 <sup>5</sup> pfu /mL
Cytomegalovirus	1 x 10 <sup>7</sup> U/ mL
Epstein-Barr Virus	2.70 x 10 <sup>8</sup> cp/ mL
Varicella Zoster Virus	4 x 10 <sup>8</sup> cp/ mL
Parvovirus B19	8 x 10 <sup>8</sup> IU/ mL
Human Immunodeficiency Virus – 1	4 x 10 <sup>9</sup> IU/ mL
Human Immunodeficiency Virus – 2	5.6 x 10 <sup>7</sup> U/ mL

0805-0362, Batch#10387873)	DNA genotype-D	3.2 x 10 <sup>3</sup> IU/ mL
	DNA genotype-E	3.5 x 10 <sup>3</sup> IU/ mL
	DNA genotype-F	1.5 x 10 <sup>5</sup> IU/ mL
	DNA genotype-H	3.0 x 10 <sup>2</sup> IU/ mL
Herpes Simplex Virus-1		1 x 10 <sup>6</sup> TCID <sub>50</sub> / mL
Herpes Simplex Virus-2		1 x 10 <sup>6</sup> U/ mL
Hepatitis C Virus		1 x 10 <sup>6</sup> TCID <sub>50</sub> / mL
<i>Candida albicans</i>		6.27 x 10 <sup>8</sup> CFU/mL
<i>Chlamydia pneumoniae</i>		2.12 x 10 <sup>8</sup> IFU/mL
<i>Haemophilus influenzae</i>		5.43 x 10 <sup>8</sup> CFU/mL
<i>Legionella pneumophila</i>		1.63 x 10 <sup>10</sup> CFU/mL
<i>Mycobacterium tuberculosis</i>		6.86 x 10 <sup>7</sup> CFU/mL
<i>Mycoplasma pneumoniae</i>		3.16 x 10 <sup>8</sup> CCU/mL
<i>Pseudomonas aeruginosa</i>		3.44 x 10 <sup>9</sup> CFU/mL
<i>Staphylococcus epidermidis</i>		9.27 x 10 <sup>9</sup> CFU/mL
<i>Staphylococcus aureus</i>		8.5 x 10 <sup>6</sup> CFU/ mL
<i>Streptococcus pneumoniae</i>		4.16 x 10 <sup>8</sup> CFU/mL
<i>Streptococcus pyogenes</i>		1.64 x 10 <sup>9</sup> CFU/mL
<i>Streptococcus salivarius</i>		8.17 x 10 <sup>8</sup> CFU/mL
<i>Escherichia coli</i>		1.3 x 10 <sup>8</sup> CFU/ mL
<i>Bordetella pertussis</i>		1.13 x 10 <sup>10</sup> CFU/mL
Pooled human nasal wash – representative of normal respiratory microbial flora		100%

To estimate the likelihood of cross-reactivity with SARS-CoV-2 of organisms that were not available for wet testing, *in-silico* analysis using the Basic Local Alignment Search Tool (BLAST) managed by the National Center for Biotechnology Information (NCBI) was used to assess the degree of protein sequence homology. HKU1 nucleocapsid phosphoproteins, *Mycobacterium tuberculosis*, and *Pneumocystis jirovecii* (PJP) were analyzed and results are below.

- The homology between SARS-CoV-2 nucleocapsid protein and human coronavirus HKU1 nucleocapsid phosphoproteins is relatively low, at 36.7% across 82% of sequences, but cross-reactivity cannot be ruled out.
- The homology between SARS-CoV-2 nucleocapsid protein and *Pneumocystis jirovecii* (PJP) total protein is relatively low, at 22.0% across 4% of sequences, but cross-reactivity cannot be ruled out.
- No homologous protein sequence was found as a result of *in-silico* analysis with *Mycobacterium tuberculosis* total protein and SARS-CoV-2 nucleocapsid protein. Despite there being little homology observed, the cross-reactivity of GenBody COVID-19 Ag against *Mycobacterium tuberculosis* cannot be ruled out.

## 14. CLINICAL EVALUATION

### 14.1. CLINICAL STUDY – NASOPHARYNGEAL SWAB SPECIMENS

A prospective clinical study was conducted from January 2021 to February 2021 at point of care (POC) sites in the United States to evaluate the performance of the GenBody COVID-19 Ag test for direct nasopharyngeal swab specimens compared to an Emergency Use Authorized (EUA) RT-PCR test. A total of seven (7) operators from three (3) POC sites were involved in the study. Patients were prospectively and sequentially enrolled at each site. Samples were collected from patients of all ages who visited the doctor with signs and symptoms of suspected COVID-19. The performance of GenBody COVID-19 Ag test was established with 107 nasopharyngeal swab specimens collected from patients within 6 days of onset of COVID-19.

Two nasopharyngeal swabs were collected from each patient. One nasopharyngeal swab was tested directly with the GenBody COVID-19 Ag test according to the product instructions. The other swab was tested with the comparator RT-PCR. Swabs were randomly assigned to test with the GenBody COVID-19 Ag test or the RT-PCR.

## A. Patient Demographic– Nasopharyngeal Swab Specimens Study

The patient demographic information (age, gender, and elapsed time from date of onset) is below.

Age Group	Male		Female		Total	
	No. of samples	%	No. of samples	%	No. of samples	%
≤5 years of age	0	0.00%	0	0.00%	0	0.00%
6-21 years of age	10	9.35%	12	11.21%	22	20.56%
22-59 years of age	33	30.84%	39	36.45%	72	67.29%
≥60 years of age	5	4.67%	8	7.48%	13	12.15%
Total	48	44.86%	59	55.14%	107	100.00%

Table a-1. The specimen positivity breakdown based on age and gender of the patient

Age Group	GenBody COVID-19 Ag		
	Total #	Positive	Prevalence
≤5 years of age	0	0	0.00%
6-21 years of age	22	9	40.91%
22-59 years of age	72	22	30.56%
≥60 years of age	13	10	76.92%
Total	107	41	38.32%

Table a-2. Positive results broken down by days since symptom onset

Days Since Symptom Onset	Cumulative RT-PCR Positive (+)	Cumulative GenBody COVID-19 Ag Positive (+)	PPA	95% Confidence Interval	
0	3	2	66.67%	9.43%	99.16%
1	11	9	81.82%	48.22%	97.72%
2	19	16	84.21%	60.42%	96.62%
3	24	21	87.50%	67.64%	97.34%
4	31	28	90.32%	74.25%	97.96%
5	42	38	90.48%	77.38%	97.34%
6	45	41	91.11%	78.78%	97.52%
Total	45	41	91.11%	78.78%	97.52%

## B. Clinical Performance – Nasopharyngeal Swab Specimens Study

The performance of the GenBody COVID-19 Ag test compared to an EUA RT-PCR at all 3 combined POC sites is presented in the table below. A total of 107 patients were enrolled from all 3 sites with symptoms within 6 days of onset.

Table b-1. Summary of the performance of GenBody COVID-19 Ag compared with RT-PCR for all sites

All Sites		RT- PCR		
		Positive	Negative	Total
GenBody COVID-19 Ag	Positive	41	0	41
	Negative	4	62	66
	Total	45	62	107

	Estimate	95% CI	
		LCI	UCI
Sensitivity (% PPA)	91.1%	78.8%	97.5%
Specificity (% NPA)	100%	94.2%	100%
Prevalence	42.1%	32.6%	52.0%

## 14.2. CLINICAL STUDY – ANTERIOR NASAL SWAB SPECIMENS

A prospective clinical study was conducted from April 2021 to July 2021 at point of care (POC) sites in the United States to evaluate the performance of the GenBody COVID-19 Ag test for direct anterior nasal swab specimens compared to an Emergency Use Authorized (EUA) RT-PCR test. A total of eight (8) operators from five (5) POC sites were involved in the study. Patients were prospectively and sequentially enrolled at each site. Samples were collected from patients of all ages who visited the doctor with signs and symptoms of suspected COVID-19. The performance of GenBody COVID-19 Ag test was established with 169 anterior nasal swab specimens collected from patients within 6 days of onset of COVID-19.

An anterior nasal swab specimen was collected from each patient and tested directly with the GenBody COVID-19 Ag test. The test result was compared with the result of comparator RT-PCR that was performed with a nasopharyngeal swab specimen from the same patient.

### A. Patient Demographics – Anterior Nasal Swab Specimens Study

The patient demographic information (age, gender, and elapsed time from date of onset) is below.

Age Group	Male		Female		Total	
	No. of samples	%	No. of samples	%	No. of samples	%
≤5 years of age	0	0.00%	1	0.59%	1	0.59%
6-21 years of age	18	10.65%	15	8.88%	33	19.53%
22-59 years of age	55	32.54%	66	39.05%	121	71.60%
≥60 years of age	7	4.14%	7	4.14%	14	8.28%
Total	80	47.34%	89	52.66%	169	100.00%

Table a-1. The specimen positivity breakdown based on age and gender of the patient

Age Group	GenBody COVID-19 Ag		
	Total #	Positive	Prevalence
≤5 years of age	1	0	0.00%
6-21 years of age	33	14	42.42%
22-59 years of age	121	45	37.19%
≥60 years of age	14	2	14.29%
Total	169	61	36.09%

Table a-2. Positive results broken down by days since symptom onset

Days Since Symptom Onset	Cumulative RT-PCR Positive (+)	Cumulative GenBody COVID-19 Ag Positive (+)	PPA	95% Confidence Interval	
0	4	4	100.00%	39.76%	100.00%
1	15	13	86.67%	59.54%	98.34%
2	30	28	93.33%	77.93%	99.18%
3	41	38	92.68%	80.08%	98.46%
4	54	49	90.74%	79.70%	96.92%
5	61	57*	91.80%**	81.90%**	97.28%**
6	65	61	92.31%**	82.95%**	97.46%**
Total	65	61	92.31%**	82.95%**	97.46%**

\* 1 false positive on onset date 5

\*\* Calculated with 5 false negatives and 1 false positive

## B. Clinical Performance – Anterior Nasal Swab Specimens Study

The performance of the GenBody COVID-19 Ag test compared to an EUA RT-PCR at all 5 combined POC sites is presented in the table below. A total of 169 patients were enrolled from all 5 POC sites with symptoms within 6 days of onset.

Table b-1. Summary of the performance of GenBody COVID-19 Ag compared with RT-PCR for all sites

All Sites		RT- PCR		
		Positive	Negative	Total
GenBody COVID-19 Ag	Positive	60	1	61
	Negative	5	103	108
	Total	65	104	169

	Estimate	95% CI	
		LCI	UCI
Sensitivity (% PPA)	92.31%	82.95%	97.46%
Specificity (% NPA)	99.04%	94.76%	99.98%
Prevalence	38.46%	31.09%	46.24%

## 15. PERFORMANCE WITH ANALYTE CONCENTRATION NEAR THE LoD CONCENTRATION

To demonstrate that non-laboratory personnel can perform the GenBody COVID-19 Ag test accurately with weak positive samples in the intended use environment, a study was performed at 3 point of care (POC) sites by testing positive samples at 2x LoD and negative samples. A total of 6 operators who were medical assistants or nurses participated in the study (2 operators at each site).

Each operator performed tests blindly using the coded samples. All operators performed the GenBody COVID-19 Ag test accurately (100% agreement with expected results) in the intended use environment.

# GenBody COVID-19 Ag

Detection kit for SARS-CoV-2 antigen in nasopharyngeal or anterior nasal swab specimens

**Rx ONLY** **IVD**  
2021.11.12 (Rev.2)  
For use under the EUA Only

## 16. TECHNICALSUPPORT

For questions, or to report a problem, please call TechnicalSupport at (888) 552-5204 (Available Hours: Mon. to Fri.: 9 a.m. – 5 p.m. PST) or [ts@genbodyamerica.com](mailto:ts@genbodyamerica.com).

Test system problems may also be reported to the FDA using the MedWatch reporting system (phone: 1-800 FDA-1088; fax: 1-800 FDA-1078; or <http://www.fda.gov/medwatch>).

## 17. ORDERING AND CONTACT INFORMATION

Kwell Laboratories, LLC (US Distributor/US Agent)  
Tel: (949) 561-0664  
Email: [inquire@kwelllabs.com](mailto:inquire@kwelllabs.com)

## 18. INTERNATIONALSYMBOL USAGE

You may see one or more of these symbols on the labelling/packaging of this product:

	Use-by date		Batch Code		<i>In vitro</i> diagnostic device
	Catalog number		Consult instructions for use		Manufacturer
	Contains sufficient for <n> test		Temperature limit		Do not reuse
	Caution		Test Device		Extraction Solution
	Dropper Tip		Extraction Tube		
	Positive Control Swab		Negative Control Swab		



**COVAG025-U** [GenBody COVID-19 Ag packaged with NP swab]  
**COVAG025-NU** [GenBody COVID-19 Ag packaged with AN swab]



**Manufacturer**  
**GenBody, Inc.**  
3-18, Eopseong 2-gil, Seobuk-gu  
Cheonan-si, Chungcheongnam-do, 31077,  
Republic of Korea  
Tel: +82-41-523-8993  
Fax: +82-41-523-8991  
Email: [contact@genbody.co.kr](mailto:contact@genbody.co.kr)  
Website: <http://genbody.co.kr>

**US Distributor / US Agent**  
**Kwell Laboratories, LLC**  
3420 De Forest Circle  
Jurupa Valley, CA 91752  
USA  
Tel: (949) 561-0664  
Email: [inquire@kwelllabs.com](mailto:inquire@kwelllabs.com)  
Website: <https://kwelllabs.com/>

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# GenBody COVID-19 Ag Quick Reference Instructions

Date of Last Revision  
2021.11.17 (Rev.2)

For Use Under an Emergency Use Authorization (EUA) Only

## Intended Use

The GenBody COVID-19 Ag is an immunochromatographic rapid diagnostic test (RDT) intended for the qualitative detection of nucleocapsid protein antigen from SARS-CoV-2 in direct nasopharyngeal (NP) or anterior nasal (AN) swab specimens from individuals who are suspected of COVID-19 by their healthcare provider within the first six 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 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.

Results are for the identification of SARS-CoV-2 nucleocapsid antigen. Antigen is generally detectable in nasopharyngeal (NP) or anterior nasal (AN) 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 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 may be confirmed with a molecular assay, if necessary, for patient management. 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 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.

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 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. 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 COVID-19 or residing in communities with low prevalence of infection.

The GenBody COVID-19 Ag is intended for use by medical professionals or operators trained in performing tests in point of care settings. The GenBody COVID-19 Ag is only for use under the Food and Drug Administration's Emergency Use Authorization.

## IMPORTANT

See Package Insert, including Quality Control section, for complete use instructions, warnings, precautions, and limitations.

### Conditions of Authorization

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 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.

### Contact Information

#### Technical Support (US)

Tel: (888) 552-5204

Email: [ts@genbodyamerica.com](mailto:ts@genbodyamerica.com)

#### US Distributor / US Agent

Kwell Laboratories, LLC

3420 De Forest Circle Jurupa Valley, CA 91752 USA

Tel: (949) 561-0664

Email: [inquire@kwelllabs.com](mailto:inquire@kwelllabs.com)

Website: [www.kwelllabs.com](http://www.kwelllabs.com)

#### Manufacturer

GenBody Inc.

3-18, Eopseong 2-gil, Seobuk-gu, Cheonan-si,

Chungcheongnam-do, 31077, Republic of Korea

Tel: +82-41-523-8993 (International)

Email: [contact@genbody.co.kr](mailto:contact@genbody.co.kr)

Website: <http://www.genbody.co.kr>

## EXTERNAL QUALITY CONTROL

Test control swabs included in the GenBody COVID-19 Ag kit in the same manner as patient specimens. The positive control should show a reddish-purple line at the C (Control) and T (Test) positions. The negative control should show a reddish-purple line at the C position only. If external controls do not perform as expected, do not use the test and contact Technical Support.

## SWAB SPECIMEN COLLECTION

Swab specimens collected from patients should be tested immediately after collection for best performance. The collected swab specimen can be tested for up to 60 minutes following specimen collection. The extracted specimen can be tested for up to 5 hours if stored between 2-30°C.



COVAG025-U  
COVAG025-NU

[GenBody COVID-19 Ag packaged with NP swab]

[GenBody COVID-19 Ag packaged with AN swab]





# GenBody COVID-19 Ag Quick Reference Instructions

Date of Last Revision  
2021.11.17 (Rev.2)

For Use Under an Emergency Use Authorization (EUA) Only

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# GenBody COVID-19 Ag Quick Reference Instructions

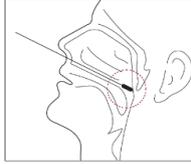
Date of Last Revision  
2021.11.17 (Rev.2)

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## Part 1 – Sample Collection Procedure

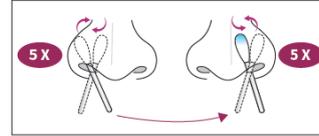
Refer to the CDC Interim Guidelines for Collecting, Handling, and Testing Clinical Specimens from Persons for Coronavirus Disease 2019 (COVID-19).

### Nasopharyngeal Samples



- 1) Remove a nasopharyngeal swab from the pouch.
- 2) With the patient's head tilted backwards at 70 degrees, carefully insert the swab into the nostril that presents the most secretion under visual inspection.
- 3) Gently and slowly insert the 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.
- 4) Leave the swab in place for several seconds to absorb secretions.
- 5) Rotate the swab 3-5 times against the posterior nasopharynx.
- 6) Using gentle rotation, remove the swab from the nostril; insert into the Extraction Tube.
- 7) All specimens should be tested as soon as they are prepared.

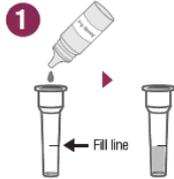
### Anterior Nasal Samples



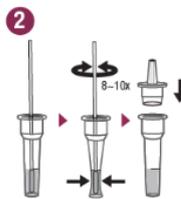
- 1) Remove an anterior nasal swab from the pouch.
- 2) Insert the Swab ½ to ¾ of an inch into the RIGHT nostril.
- 3) In a circular motion, rub the swab around the entire wall of the nostril with some pressure. This should be performed for at least 5 circles and 15 seconds.
- 4) Withdraw the swab and repeat the same process on the LEFT nostril.
- 5) Withdraw the swab from the second nostril. Immediately after BOTH nostrils have been swabbed, place the swab into the Extraction Tube.
- 6) All specimens should be tested as soon as they are prepared.

## Part 2 – Test Procedure

Open the Test Device just prior to use, lay it flat, and perform assay as below



- Add the Extraction solution to the **Fill Line** indicated on the Extraction Tube.



- Insert the collected specimen swab into the Extraction Solution.
- **Mix** by squeezing the tube and simultaneously rotating the swab 8~10x.
- Place the **Dropper Tip**.

**Inadequate swab rotation can result in incorrect results.**



- Place Test Device on a **level surface**.
- Add **4 drops** of the solution to the sample well.

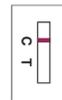


- **Read** the test result at **15~20 minutes**.
- **Do not read** the results after **20 minutes**.

**False positive or false negative results can occur if test device is read before 15 minutes or after 20 minutes.**

## Part 3 – Result Interpretation

**Laboratories within the United States and its territories are required to report all results to the appropriate public health laboratories.**



### Negative Results

Only one reddish purple line on the control line (C) position appears with no line on the test line position (T).

**Note:** If the first test result is negative for individuals without symptoms, individuals should be retested with a second test after 24 hours but no more than 48 hours. Negative results should be treated as presumptive and confirmed with a molecular assay, if necessary, for patient management.

**Note:** 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 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.

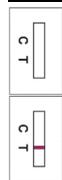


### Positive Results

Two reddish-purple lines appear in the test window, one on the test line position (T) and the other on the control line position (C).

Any visible reddish purple colored line at the T position is positive.

**Note:** 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.



### Invalid Results

If a line does not appear on the control line position (C) in 15 minutes, the test result is invalid. Re-test with a new GenBody COVID-19 Ag Test Device.