

COVID-19 Antigen Home Test Package Insert for Healthcare Providers

REF L031-118B3W English

A rapid test for the detection of SARS-CoV-2 nucleocapsid antigens in anterior nasal swab specimens. For in vitro diagnostic use only. For Emergency Use Authorization only.

INTENDED USE

The On/Go One COVID-19 Antigen Home Test is a lateral flow immunoassay device intended for the qualitative detection of the nucleocapsid protein antigen from SARS-CoV-2 virus.

This test is authorized for non-prescription home use with self-collected anterior nasal (nares) swab samples from individuals aged 14 years or older or adult collected anterior nasal (nares) swab samples from individuals aged 2 years or older. This test is authorized for individuals with symptoms of COVID-19 within 7 days of symptom onset when tested at least twice over three days with at least 48 hours between tests, and for individuals without symptoms or other epidemiological reasons to suspect COVID-19 when tested at least three times over five days with at least 48 hours between tests.

The On/Go One COVID-19 Antigen Home Test does not differentiate between SARS-CoV and SARS-CoV-2.

Results are for the identification of SARS-CoV-2 nucleocapsid protein antigen, which is generally detectable in anterior nasal (nares) samples 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 and the agent detected may not be the definitive cause of disease. Individuals who test positive with the On/Go One COVID-19 Antigen Home Test should self-isolate and seek follow up care with their physician or healthcare provider as additional testing may be necessary.

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 an individual's recent exposures, history, and the presence of clinical signs and symptoms consistent with COVID-19. Individuals who test negative and continue to experience COVID-19 like symptoms of fever, cough and/or shortness of breath may still have SARS-CoV-2 infection and should seek follow up care with their physician or healthcare provider.

Individuals should provide all results obtained with this product to their healthcare provider for public health reporting and to receive appropriate medical care. All healthcare providers will report all test results they receive from individuals who use the authorized product to relevant public health authorities in accordance with local, state, and federal requirements, using appropriate LOINC and SNOMED codes, as defined by the Laboratory In Vitro Diagnostics (LIVD) Test Code Mapping for SARS-CoV-2 Tests provided by CDC.

The On/Go One COVID-19 Antigen Home Test is intended for non-prescription self-use and/or as applicable, for an adult lay user testing another aged 2 years or older in a non-laboratory setting. The On/Go One COVID-19 Antigen Home Test 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

The novel coronaviruses belong to the β genus. COVID-19 is an acute respiratory infectious disease. People are generally susceptible. Currently, the patients infected by the novel coronavirus are the main source of infection; asymptomatic infected people can also be an infectious source. Based on the current epidemiological investigation, the incubation period is 1 to 14 days, mostly 3 to 7 days. The main manifestations include fever, fatigue and dry cough. Nasal congestion, runny nose, sore throat, myalgia and diarrhea are found in a few cases.

PRINCIPLE

The On/Go One COVID-19 Antigen Home Test is a qualitative membrane based chromatographic immunoassay for the qualitative detection of the nucleocapsid protein antigen from SARS-CoV-2 in human anterior nasal swab specimens.

When specimens are processed and added to the test cassette, SARS-CoV-2 antigens, if present in the specimen, will react with the colored anti-SARS-CoV-2 antibody-coated particles, which have been pre-coated on the test strip. The antigen-antibody complex then migrates toward the membrane by capillary action. This complex is then captured by anti-SARS-CoV-2 monoclonal antibodies immobilized at the test line region, and a colored line appears on the membrane. Test results are interpreted visually at 15-30 minutes based on the presence or absence of visually colored lines.

To serve as a procedure control, a red or pink line will always appear in the control line region after proper volume of specimen has been added, and membrane wicking has occurred.

REAGENTS

The test cassette contains anti-SARS-CoV-2 antibodies.

WARNINGS, PRECAUTIONS, AND SAFETY INFORMATION

- Read the COVID-19 Antigen Home Test Package Insert carefully before performing a test. Follow directions for use. Failure to follow directions may produce inaccurate test results.
- For in vitro diagnostic use.
 - In the USA, this product has not been FDA cleared or approved, but has been authorized by FDA under an Emergency Use Authorization only. This product has been authorized only for the detection of proteins from SARS-CoV-2, not for any other viruses or pathogens. 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.
- Serial testing should be performed in individuals with negative results at least twice over three days (with 48 hours between tests) for symptomatic individuals and three times over five days (with at least 48 hours between tests) for asymptomatic individuals.
 You may need to purchase additional tests to perform this serial (repeat) testing.
- If you have symptoms longer than 7 days you should consider testing at least three times over five days with at least 48 hours between tests.
- This product has been designed only for the detection of SARS-CoV-2 antigen, not for any other viruses or pathogens.
- False negative test results may occur if a specimen is incorrectly collected or handled.
- To obtain accurate results, the test must be performed as indicated in this Instructions for Use.
- INVALID RESULTS, indicated by no Control Line, can occur when an insufficient volume of sample solution is added to the test cassette. Gently squeeze the tube and dispense 4 drops of solution into the sample well of test cassette.
- Swabs in the kit are approved for use with On/Go One COVID-19 Antigen Home Test. Do not use other swabs.
- Do not use on anyone under 2 years of age.
- Keep test kit and kit components away from children and pets before and after use.
- An anterior nasal swab sample can be self-collected by an individual age 14 years and older.
 Children age 2 to 13 years should be tested by an adult.
- Wear a safely mask or other face-covering when collecting a specimen from a child or another individual.
- Leave the test cassette sealed in its pouch until just before use. Once opened, the test cassette should be used within 60 minutes.
- Do not use the test after the expiration date shown on the test cassette pouch.
- Do not use if any of the test kit contents or packaging is damaged or open.
- Test components are single-use. Do not re-use. Do not use with multiple specimens.
- Make sure there is sufficient light when reading and interpreting test results.
- Do not use nasal sprays for at least 30 minutes before collecting a nasal sample.
- Remove any piercings from the nose before starting the test. Do not use on anyone who is prone to nosebleeds or has had facial injuries or head injuries/surgery in the past six months.
- False negative test results may occur if a specimen is incorrectly collected or handled.
- Do not touch the swab tip when handling the swab.
- Test samples immediately after collection, and no more than one hour after the swab is added to the reagent solution, if stored at room temperature.
- Do not read test results before 15 minutes or after 30 minutes. Results read before 15 minutes or after 30 minutes may lead to a false positive, false negative, or invalid result.
- · Avoid exposure of your skin, eyes, nose, or mouth to the solution in the extraction tube.
- Do not ingest any kit components.
- The reagent solution in the tube contains a harmful chemical (see table below). If the solution contacts the skin, eyes, nose, or mouth, flush with large amounts of water. **If irritation persists, seek medical advice.**

https://www.poisonhelp.org or 1-800-222-1222

Hazardous Ingredients for the Reagent Solution			
Chemical Name	Harms (GHS) code for each ingredient	Concentration	
TX-100	H302 Acute oral toxicity H315 Skin irritation H318 Serious eye damage H400 Short-term (acute) aquatic hazard H410 Long-term (chronic) aquatic hazard	1%	
Sodium Azide	H300 Acute oral toxicity H310 Acute dermal toxicity H373 Oral, Brain toxicity H400 Short-term (acute) aquatic hazard H410 Long-term (chronic) aquatic hazard	0.02%	

If INHALATION: Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

If SKIN Contact: Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

If EYE Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention immediately. If INGESTION: Clean mouth with water. Do not induce vomiting. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician or Poison Control Center immediately.

- For more information on ÉUAs please visit: https://www.fda.gov/emergency-preparedness-and-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

STORAGE AND STABILITY

- The kit can be stored at temperatures between 36-86°F (2-30°C).
- The test is stable until the expiration date printed on the sealed pouch.
- The test must remain in the sealed pouch until use.
- DO NOT FREEZE.
- Do not use after the expiration date.

MATERIALS

Materials Provided

Test Cassettes

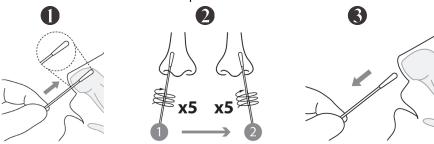
- Extraction Buffer Tubes
- Disposable Nasal Swabs
- Package Insert

Materials Required But Not Provided

- Smartphone (supplied by the user)
- Mobile application: Prior to testing, the user should download the free mobile application, On/Go™ App, for iOS or Android smartphones.
- Timer

SPECIMEN COLLECTION AND PREPARATION

- The On/Go One COVID-19 Antigen Home Test is performed using anterior nasal swab specimens.
- Wash or sanitize your hands. Make sure they are dry before starting the test.
- Open the test cassette pouch and lay the cassette on a clean, flat surface.
- To collect an anterior nasal swab sample:
- Gently insert the entire absorbent tip of the swab into 1 nostril (½ to ¾ of an inch). With children, the maximum depth of insertion into the nostril may be less than ¾ of an inch, and you may need to have a second person to hold the child's head while swabbing.
- Note: A false negative result may occur if the nasal swab specimen is not properly collected.
- 2. Firmly rub the swab in a circular motion around the inside wall of the nostril 5 times. Take approximately 15 seconds to collect the specimen. Be sure to collect any nasal drainage that may be present onto the swab. Repeat this in the other nostril using the same swab.
- 3. Remove the swab from the nostril and place into the extraction buffer tube.

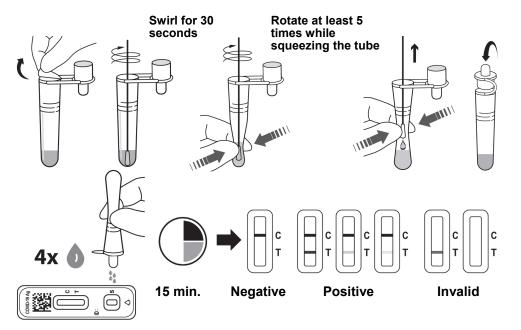


DIRECTIONS FOR USE

- 1. Follow the in-app self-paced, step-by-step instructions or paper instructions.
- 2. Punch through the perforated circle on the kit box to form a tube holder.
- 3. Remove the foil from the top of the extraction buffer tube. Place the tube in the tube holder.
- . Immediately place the swab into the tube and swirl for 30 seconds.
- 5. Rotate the swab 5 times while squeezing the tube.
- 6. Remove the swab **while squeezing the tube** to extract as much liquid as possible. Dispose the swab in the trash.
- 7. Attach the dropper tip firmly onto the tube. Mix thoroughly by swirling or flicking the bottom of the tube.
- Note: A false negative result may occur if the swab is not swirled at least 30 seconds or rotated 5 times.8. Gently squeeze the tube and dispense 4 drops of solution into the Sample Well. Dispose the
- tube in the trash.

 Note: A false negative or invalid result may occur if less than 4 drops of fluid are added
- to the Sample Well.9. Set the timer for 15 minutes. Result should be read at 15 minutes. Do not read after 30 minutes.
- Dispose the test cassette in the trash.

 Note: A false negative or false positive result may occur if the test result is read before
 15 minutes or after 30 minutes.



INTERPRETATION OF RESULTS

(Please refer to the illustration above)

Repeat testing is needed to improve test accuracy. Please follow the table below when interpreting test results for COVID-19.

Status on first day of Testing	First Result Day 1	Second Result Day 3	Third Result Day 5	Interpretation
1460	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
	Positive	N/A	N/A	Positive for COVID-19
Without	Negative	Positive	N/A	Positive for COVID-19
Symptoms	Negative	Negative	Positive	Positive for COVID-19
	Negative	Negative	Negative	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.

NEGATIVE: If the Control (C) line is visible, but the Test (T) line is not visible, the test is negative. **To increase the chance that the negative result for COVID-19 is accurate, you should:**

- To increase the chance that the negative result for COVID-19 is accurate, you should:

 Test again in 48 hours if the individual has symptoms on the first day of testing.
- Test 2 more times at least 48 hours apart if the individual does not have 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/or 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 should be treated as 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 decisions.

POSITIVE: If the Control (C) line and the Test (T) line are visible, the test is positive. Any faint visible red or pink test (T) line with the control line (C) should be read as 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 definitive cause of disease. Individuals who test positive with the On/Go One COVID-19 Antigen Home Test should self-isolate and seek follow up care with their physician or 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.

INVALID: If the control (C) line is not visible, the test is invalid. Re-test with a new swab and new test device. If the problem persists, call (888) 965-0301 for assistance.

QUALITY CONTROL

Internal procedural controls are included in the test. A red or pink line appearing in the control line region (C) is an internal procedural control. The appearance of the procedural control line indicates that proper volume of specimen has been added and capillary flow occurred. If the procedural control line does not develop in 15 minutes, the test result is considered invalid, and retesting with a new cassette is recommended.

LIMITATIONS

- 1. The performance of this test was established based on the evaluation of a limited number of clinical specimens collected between March, 2021 and May, 2021. 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.
- 2. Specimens should be tested as quickly as possible after specimen collection.
- Failure to follow the instructions for use may adversely affect test performance and/or invalidate the test result.
- A false negative result may occur if the level of antigen in a sample is below the detection limit of the test.
- 5. A false negative result may occur if the sample was collected incorrectly or handled.
- 6. A false negative result may occur if the swab is not swirled at least 30 seconds or rotated five times
- 7. A false negative or invalid result may occur if less than 4 drops of fluid are added to the Sample Well.
- A false negative or false positive result may occur if the test result is read before 15 minutes or after 30 minutes
- There is a higher chance of false negative results with antigen tests than with laboratory-based 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.
- 11. 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.
- 12. 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.
- 13. This test is read visually and has not been validated for use by those with impaired vision or color-impaired vision.
- 14. Incorrect test results may occur if a specimen is incorrectly collected or handled.
- 15. This test detects both viable (live) and nonviable SARS-CóV-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 On/Go One COVID-19 Antigen Home Test does not differentiate between SARS-CoV and SARS-CoV-2.
- 17. Test results should be correlated with other clinical data available to the physician.
- 18. A positive or negative test result does not rule out co-infections with other pathogens such as other viral or bacterial infections.
- 19. A negative test result is not intended to rule out other viral or bacterial infections.
- 20. If the differentiation of specific SARS viruses and strains is needed, additional testing is required, in consultation with state or local public health departments, is required.
- 21. Serial testing (i.e., testing every day or every other day) is more likely to detect COVID-19, especially in individuals that do not have any symptoms.

PERFORMANCE CHARACTERISTICS

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 SARSCoV-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 symptom status throughout the study using the MyDataHelps app. Two-day serial antigen testing is defined as performing two antigen tests 36 - 48 hours apart.

Three-day 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. Pre-symptomatic subjects were included in the positive percent agreement (PPA) of asymptomatic individuals, if they were asymptomatic on the first day of antigen testing, regardless of whether they developed symptoms at any time after the first day of testing.

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

DAYS AFTER FIRST PCR	ASYMPTOMATIC ON FIRST DAY OF TESTING			SYMPTOMATIC ON FIRST DAY OF TESTING		
POSITIVE TEST	Ag Pos	itive / PCR F	Positive (A	Antigen Test P	erformance	% PPA)
RESULT	1 Test	2 Tests	3 Tests	1 Test	2 Tests	3 Tests
0	9/97	35/89	44/78	34/57	47/51	44/47
	(9.3%)	(39.3%)	(56.4%)	(59.6%)	(92.2%)	(93.6%)
2	17/34	23/34	25/32	58/62	59/60	43/42
	(50.0%)	(67.6%)	(78.1%)	(93.5%)	(98.3%)	(100%)
4	16/21	15/20	13/15	55/58	53/54	39/40
	(76.2%)	(75.0%)	(86.7%)	(94.8%)	(98.1%)	(97.5%)
6	20/28	24/27	16/18	27/34	26/33	22/27
	(71.4%)	(77.8%)	(88.9%)	(79.4%)	(78.8%)	(81.5%)
8	13/23	13/22	4/11	12/17	12/17	7/11
	(56.5%)	(59.1%)	(36.4%)	(70.6%)	(70.6%)	(63.6%)
10	5/9 (55.6%)	5/8 (62.5%)	1	4/9 (44.4%)	3/7 (42.9%)	1

- 1 Test = one (1) test performed on the noted days after first PCR positive test result. Day 0 is the first day of 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.

Clinical Sensitivity, Specificity and Accuracy

The performance of On/Go One COVID-19 Antigen Home Test was established in an all-comers clinical study conducted between March 2021 and May 2021 with 108 nasal swabs self-collected or pair-collected by another study participant from symptomatic patients (within 7 days of onset) suspected of COVID-19. The study was conducted in a simulated home setting environment at two study sites in U.S. All study participants performed the test unassisted and interpreted the result, using only the product labeling. The On/Go One COVID-19 Antigen Home Test results were compared to an FDA EUA RT-PCR COVID-19 assay to determine test performance in the tables below:

Table 1. Performance of the On/Go One COVID-19 Antigen Home Test in Symptomatic subjects

On/Go One	RT-PCR method			
COVID-19 Antigen Home Test	Positive	Negative	Total	
Positive	28	0	28	
Negative	2	78	80	
Total	30	78	108	
Positive Percent Agreement (PPA)	93% (95%CI: 78% - 99%)			
Negative Percent Agreement (NPA)	100% (95%CI: 95% - 100%)			

Table 2. Cumulative PPA results by days since symptom onset

Days Since Symptom Onset	# Specimens Tested	# Cumulative Positive On/Go One COVID-19 Antigen Home Test	Cumulative Positive RT-PCR	Cumulative PPA
0 to 1 day	29	6	7	86%
0 to 2 days	64	15	16	94%
0 to 3 days	90	20	21	95%
0 to 4 days	96	21	22	95%
0 to 5 days	100	23	24	96%
0 to 6 days	106	26	28	93%
0 to 7 days	108	28	30	93%

Symptomatic Patient Age Distribution:

A total of 108 symptomatic patients participated in the study. Ages of symptomatic patients ranged from 2 years to 93 years. The table below shows age distribution and the positive results broken down by age of the symptomatic patient:

Table 3. Age distribution of subjects and specimen positivity

Table 6. Age distribution of subjects and specimen positivity				
	On/Go One COVID-19 Antigen Home Test (N=108)			
Age Group	Total	Total Positive	Prevalence	
2-13 years	8	1	13%	
14- 24 years	12	4	33%	
25- 64 years	67	21	31%	
≥ 65 years	21	2	10%	
Total	108	28	26%	

Analytical Sensitivity: Limit of Detection (LoD)

The Limit of Detection (LoD) of the On/Go One COVID-19 Antigen Home Test was determined using limiting dilutions of the heat-inactivated SARS-CoV-2 virus (USA-WA1/2020). Nasal swabs from healthy donors were collected and eluted with PBS. The swab eluates were combined and mixed thoroughly to create a negative clinical matrix pool to be used as the diluent. Inactivated SARS-CoV-2 virus was diluted in this negative clinical matrix pool to generate virus dilutions for testing.

The contrived nasal swab samples were prepared by absorbing 50 μ L of each virus dilution onto the swab. The contrived swab samples were processed and tested according to the package insert.

SARS-CoV-2 Concentration in nasal matrix	Number of Positives/Total	% Detected
2.5 x 10 ³ TCID ₅₀ /mL	60/60	100%

LoD was determined as the lowest virus concentration that was detected \geq 95% of the time. Based on this testing, the LoD in nasal matrix was confirmed to be 2.5 x 10³ TCID₅₀/mL. Based upon the testing procedure for this study, the LoD of 2.5 x 10³ TCID₅₀/mL equates to 1.3 x 10² TCID₅₀/swab.

The performance of this test device in the detection of the Omicron variant of SARS-CoV-2 was evaluated in a dilution series of clinical specimens which were positive for the Omicron variant. This testing was conducted by the National Institutes of Health (NIH) as a component of the Rapid Acceleration of Diagnostics (RADx) initiative. The clinical specimens used to prepare this dilution series were not identical to the previous specimen pools prepared and tested by RADx to assess performance with the omicron variant. Results from this dilution series cannot be compared to other specimen pools and do not indicate that a test will have different clinical performance compared to other EUA authorized tests. Compared to an EUA authorized RT-PCR method, the On/Go One COVID-19 Antigen Home Test detected 100% of live virus Omicron samples at a Ct-value of 25.6 (n=5). Testing was also compared to two additional EUA-authorized OTC antigen tests (Assay #1 and Assay #2). Omicron dilutions at lower viral concentrations (Ct-values greater than 25.6) were not detected by the On/Go One COVID-19 Antigen Home Test in this study.

Omicron BA.2 Pool 1 Dilutions	Avg (N=9)	Assay #1 Percent Positive N=5	On/Go One Test Percent Positive N=5	Assay #2 Percent Positive N=5
Dilution 1	19.4	100	100	100
Dilution 2	20.6	100	100	100
Dilution 3	21.6	100	100	100
Dilution 4	22.4	100	100	100
Dilution 5	23.3	100	100	100
Dilution 6	24.5	0	100	100
Dilution 7	25.6	0	100	100
Dilution 8	26.5	0	0	0
Dilution 9	27.7	0	0	0
Dilution 10	28.5	0	0	0
Dilution 11	29.4	0	0	0
Dilution 12	30.3	0	0	0

Analytical Specificity: Cross-Reactivity and Microbial Interference

Cross-reactivity was evaluated by testing a panel of related pathogens and microorganisms that are likely to be present in the nasal cavity. Each organism and virus were tested in the absence or presence of heat-inactivated SARS-CoV-2 virus (USA-WA1/2020) at a low concentration. No cross-reactivity or interference was observed with the following organisms when tested at the concentration presented in the table below.

Pote	ential Cross Reactant	Test Concentration	Cross-Reactivity Results	Interference Results
Virus	Adenovirus	1.14 x 10 ⁶ TCID ₅₀ /mL	No cross-reactivity	No Interference
Viius	Enterovirus	9.50 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference

	Human coronavirus 229E	1.04 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Human coronavirus OC43	2.63 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Human coronavirus NL63	1.0 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Human Metapneumovirus	1.25 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	MERS-coronavirus	7.90 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Influenza A	1.04 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Influenza B	1.04 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Parainfluenza virus 1	1.25 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Parainfluenza virus 2	3.78 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Parainfluenza virus 3	1.0 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Parainfluenza virus 4	2.88 x 10 ⁶ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Respiratory syncytial virus	3.15 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Rhinovirus	3.15 x 10 ⁵ TCID ₅₀ /mL	No cross-reactivity	No Interference
	Bordetella pertussis	2.83 x 10 ⁹ CFU/mL	No cross-reactivity	No Interference
	Chlamydia pneumonia	3.5 x 10 ⁷ IFU/mL	No cross-reactivity	No Interference
	Chlamydia trachomatis	3.13 x 108 CFU/mL	No cross-reactivity	No Interference
	Haemophilus influenzae	1.36 x 108 CFU/mL	No cross-reactivity	No Interference
	Legionella pneumophila	4.08 x 109 CFU/mL	No cross-reactivity	No Interference
	Mycobacterium tuberculosis	1.72 x 10 ⁷ CFU/mL	No cross-reactivity	No Interference
Bacteria	Mycoplasma pneumoniae	7.90 x 10 ⁷ CFU/mL	No cross-reactivity	No Interference
Dacteria	Staphylococcus aureus	1.38 x 10 ⁷ CFU/mL	No cross-reactivity	No Interference
	Staphylococcus epidermidis	2.32 x 10 ⁹ CFU/mL	No cross-reactivity	No Interference
	Streptococcus pneumoniae	1.04 x 108 CFU/mL	No cross-reactivity	No Interference
	Streptococcus pyogenes	4.10 x 10 ⁶ CFU/mL	No cross-reactivity	No Interference
	Pneumocystis jirovecii-S. cerevisiae	8.63 x 10 ⁷ CFU/mL	No cross-reactivity	No Interference
	Pseudomonas aeruginosa	1.87 x 108 CFU/mL	No cross-reactivity	No Interference
Yeast	Candida albicans	1.57 x 108 CFU/mL	No cross-reactivity	No Interference

To estimate the likelihood of cross-reactivity with SARS-CoV-2 of organisms that were not available for wet testing, in-silico analysis was used to assess the degree of protein sequence homology. The comparison between SARS-CoV-2 nucleocapsid protein and human coronavirus HKU1 revealed a low homology of 36.7% across 82.8% of the SARS-CoV-2 nucleocapsid sequence. The result suggests that cross-reactivity with human coronavirus HKU1 cannot be completely ruled out.

Compared the sequence homology between the SARS-CoV-2 nucleocapsid protein and the structural proteins of SARS coronavirus (SARS-CoV) and with given the substantial homology rate (91.5%), there is high probability of cross-reactivity between the nucleocapsid proteins of SARS-CoV-2 and SARS-CoV. The On/Go One COVID-19 Antigen Home Test does not differentiate between SARS-CoV and SARS-CoV-2.

Endogenous Interfering Substances

The following substances, naturally present in respiratory specimens or that may be artificially introduced into the nasal cavity or nasopharynx, were evaluated. In addition to the materials that are found in the nasal cavity, substances that are commonly found on the hands were also tested. Each substance was tested in the absence or presence of SARS-CoV-2 virus (USA-WA1/2020) at a low concentration. The performance of On/Go One COVID-19 Antigen Home Test was not affected by any of the potentially interfering substances listed in the table below at the concentrations tested.

Interfering Substance	Source/Item	Test Concentration	Cross-Reactivity Results	Interference Results
Biotin	Sigma/ B4501	3500 ng/mL	No cross-reactivity	No interference
Chloraseptic Throat Lozenge (Menthol/Benzocaine)	Chloraseptic	1.5 mg/mL	No cross-reactivity	No interference
Cough Lozenge (Menthol)	Ricola	1.5 mg/mL	No cross-reactivity	No interference
Dyclonine Hydrochloride	Sigma/PHR1849	1.5mg/mL	No cross-reactivity	No interference
Fluticasone propionate	Flonase	5% v/v	No cross-reactivity	No interference
Mucin	Sigma/M3895	0.5% w/v	No cross-reactivity	No interference
Mupirocin	Sigma/M7694	10 mg/mL	No cross-reactivity	No interference
Nasal Drops (Phenylephrine)	Equate (Walmart)	15% v/v	No cross-reactivity	No interference
Nasal Spray (Cromolyn)	NasalCrom	15% v/v	No cross-reactivity	No interference
Nasal Spray (Homeopathic)	ALKALOL	1:10 Dilution	No cross-reactivity	No interference

Nasal Spray (Oxymetazoline HCI)	Afrin	15% v/v	No cross-reactivity	No interference
Naso GEL (NeilMed)	NeilMed	5% v/v	No cross-reactivity	No interference
	Equate (Walmart)	15% v/v	No cross-reactivity	No interference
Tamiflu (Oseltamivir Phosphate)	Tamiflu	5 mg/mL	No cross-reactivity	No interference
Tobramycin	Sigma/LRAC4285	4 μg/mL	No cross-reactivity	No interference
Whole Blood	In-house	4% v/v	No cross-reactivity	No interference
Zicam	Zicam	5% v/v	No cross-reactivity	No interference

Potential Interfering Household Items	Source /Item	Test Concentration	Cross-Reactivity Results	Interference Results
Body & Hand Lotion	Aveeno	0.5% w/v	No cross-reactivity	No interference
Body Lotion, with 1.2% dimethicone	Aveeno	0.5% w/v	No cross-reactivity	No interference
Hand Lotion	Bath & Body	5% w/v	No cross-reactivity	No interference
Hand Sanitizer with Aloe, 62% ethyl alcohol	Hand in Hand	5% v/v	No cross-reactivity	No interference
Hand Sanitizer cream lotion	Dove	15% v/v	No cross-reactivity	No interference
Hand Sanitizer, 80% ethanol, fast drying	Allied Photo Chemical	15% w/v	No cross-reactivity	No interference
Hand soap liquid gel	SoftSoap	10% w/v	No cross-reactivity	No interference

High Dose Hook Effect

No high dose hook effect was observed when tested with up to a concentration of 1.0 x 10^6 TCID $_{50}$ /mL of heat-inactivated SARS-CoV-2 virus (USA-WA1/2020) with the On/Go One COVID-19 Antigen Home Test.

Usability Study

A total of 431 subjects were enrolled in the study and were instructed to self-collect or collect a sample from a child, complete the required procedural steps, and interpret the test results unassisted in a simulated home-setting. The overall success of every task completed by all subjects enrolled was determined by unassisted professional observation. Subjects performed 96.2% (409/425) of steps/tasks correctly compared to healthcare professional users. After the completion of the test, the subject (or Parent/Legal Guardian) completed a test usability

After the completion of the test, the subject (or Parent/Legal Guardian) completed a test usability and satisfaction questionnaire. Specifically, 98.8% of subjects indicated that it was easy to see and understand the test results. Untrained lay users missed 7.9% of results compared to a healthcare provider, suggesting that lay users should carefully inspect the test cassette for faint lines. The Invalid Test Rate for the clinical study: the overall invalid result rate was 0% (0/172), this indicated that all the users had added sufficient sample volume (4 drops) onto the test cassettes.

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- 1. Shuo Su, Gary Wong, Weifeng Shi, et al. Epidemiology, Genetic recombination, and pathogenesis of coronaviruses. Trends in Microbiology, June 2016, vol. 24, No. 6: 490-502
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Index of Symbols

***	Manufacturer	M	Date of manufacture
Σ	Contains sufficient for <n> tests</n>	REF	Catalogue number
IVD	In vitro diagnostic medical device	\square	Use-by date
[]i	Consult instructions for use	LOT	Batch code
1	Temperature limit	2	Do not reuse

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