

# COVID-19 Antigen Home Test Package Insert for Healthcare Providers

REF L031-118B5 REF L031-125M5 REF L031-125N5 REF L031-125P5 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 Flowflex COVID-19 Antigen Home Test is a lateral flow chromatographic immunoassay intended for the qualitative detection of the nucleocapsid protein antigen from SARS-CoV-2 in anterior nasal swab specimens directly from individuals within 7 days of symptom onset or without symptoms or other epidemiological reasons to suspect COVID-19. This test is authorized for non-prescription home use with self-collected anterior nasal swab specimens directly from individuals aged 14 years and older or with adult-collected anterior nasal samples directly from individuals aged 2 years or older. The Flowflex 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. This antigen is generally detectable in anterior nasal swabs 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.

Individuals who test positive should self-isolate and consult their doctor as additional testing may be necessary and for public health reporting.

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 decisions. 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 should provide all results obtained with this product to their doctor or healthcare provider for public health reporting. Doctors or 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 Flowflex COVID-19 Antigen Home Test is intended for self-use or lay user testing another in a non-laboratory setting. The Flowflex COVID-19 Antigen Home Test is only for use under the Food and Drug Administration's Emergency Use Authorization.

#### SUMMARY AND EXPLANATION

The novel coronaviruses belong to the  $\beta$  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 Flowflex 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 precoated 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.

#### **PRECAUTIONS**

- 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.
- This product has not been FDA cleared or approved but has been authorized by FDA under an EUA.
- 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.
- 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 Flowflex COVID-19 Antigen Home Test. Do not use other swabs.

- Do not use on anyone under two years of age. Keep test kit and materials out of the reach of children and
  pets. before and after use.
- Children aged 2 to 13 years of age 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.
- Inadequate or improper nasal swab sample collection may result in false negative test results.
- 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.
- The test is intended to be read at 15 minutes. If the test is read before 15 minutes or after 30 minutes, false negative or false positive results may occur, and the test should be repeated with a new test cassette.
- 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 or eye, flush with plenty of water. If irritation persists, seek medical advice. https://www.poisonhelp.org

Hazardous Ingredier	Hazardous Ingredients for the Reagent Solution				
Chemical Name/ Concentration	Harms (GHS) code for each ingredient	Concentration			
TX-100	Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410	1%			
Sodium Azide	Acute toxicity, Oral (Category 2), H300 Acute toxicity, Dermal (Category 1), H310 Specific target organ toxicity - repeated exposure, Oral (Category 2), Brain, H373 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410	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.

# 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
- Disposable Nasal Swabs
- Tube Holder (only for 25 test quantity)
- Extraction Buffer Tubes
- Package Insert

**Note**: This test comes in a 1 test (REF: L031-118B5), 2 test (REF: L031-125M5), 5 test (REF: L031-125N5), 25 test (REF: L031-125P5) quantity. The number of items supplied in the kit will vary depending on which kit was purchased.

## Materials Required But Not Provided

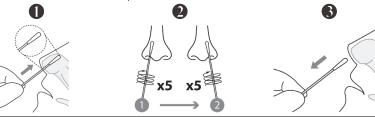
- Timer
- Flowflex Web App (Optional) if using the Web App, ensure you have an internet connection and go to www.flowflexcovid.com prior to starting the test. Ensure you are using a compatible web browser (Chrome, Firefox, or Safari) and your electronic device has a camera.

# SPECIMEN COLLECTION AND PREPARATION

- The Flowflex 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:
- 1. 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.

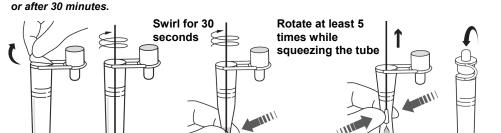
- 2. Firmly rub the swab in a circular motion around the inside wall of the nostril 5 times. Take approximately 15 seconds to collect the specimen. Be sure to collect any nasal drainage that may be present onto the swab. Repeat this in the other nostril using the same swab.
- 3. Remove the swab from the nostril and place into the extraction buffer tube.

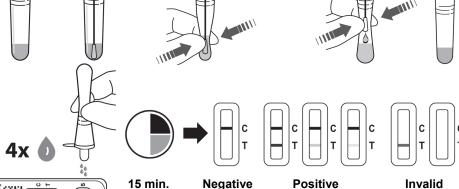


#### DIRECTIONS FOR USE

- Punch through the perforated circle on the kit box to form a tube holder. For 25 test quantity kit box the tube holder is included.
- 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.
- Rotate the swab 5 times while squeezing the tube.
- 5. Remove the swab **while squeezing the tube** to extract as much liquid as possible. Dispose the swab in the trash.
- 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
- 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.
  8. 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





#### INTERPRETATION OF RESULTS

(Please refer to the illustration above)

**NEGATIVE:** Only the control line (C) and no test line (T) appears. This means that no SARS-CoV-2 antigen was detected. A negative test result indicates that antigens from the virus that causes COVID-19 were not detected from the specimen. A negative result does not rule out COVID-19. There is a higher chance of false negative results with antigen tests than with laboratory-based molecular tests. This means that there is a higher chance this test will give you a negative result when you have COVID-19. If you test negative and continue to experience COVID-19 like symptoms of fever, cough, and/or shortness of breath you should seek follow up care with your healthcare provider.

**POSITIVE:\*** Both the control line (C) and test line (T) appear. This means that SARS-CoV-2 antigen was detected. A positive test result means that the virus that causes COVID-19 was detected in your sample and it is very likely you have COVID-19 and are contagious. Please contact your doctor/primary care physician or your local health authority immediately and 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). Your healthcare provider will work with you to determine how best to care for you based on your test results along with medical history and your symptoms.

\* NOTE: The intensity of the red or pink color in the test line (T) may vary depending on the level of the SARS-CoV-2 antigen present in the specimen. Therefore, any shade of red or pink in the test line region (T) should be considered positive.

**INVALID:** Control line fails to appear. Insufficient specimen volume or incorrect operation are the most likely reasons for control line failure. Review the procedure and repeat the test with a new swab and new test cassette. If the problem persists, call (800) 838-9502 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 Flowflex COVID-19 Antigen Home Test is for *in vitro* diagnostic use only. The test should be used for the detection of SARS-CoV-2 antigens in anterior nasal swab specimens only. The intensity of the test line does not necessarily correlate to SARS-CoV-2 viral titer in the specimen.
- 2. Specimens should be tested as quickly as possible after specimen collection.
- 3. Failure to follow the instructions for use may adversely affect test performance and/or invalidate the test result.
- 4. 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.
- A false negative result may occur if the swab is not swirled at least 30 seconds or rotated five times
   A false negative or invalid result may occur if less than 4 drops of fluid are added to the Sample Well.
- 8. A false negative or false positive result may occur if the test result is read before 15 minutes or after 30 minutes
- 9. This test detects both viable (live) and non-viable, SARS-CoV, and SARS-CoV-2. Test performance depends on the amount of virus (antigen) in the sample and may or may not correlate with viral culture results performed on the same sample.
- 10. The Flowflex COVID-19 Antigen Home Test does not differentiate between SARS-CoV and SARS-CoV-2.
- 11. Test results should be correlated with other clinical data available to the physician.
- 12. A positive or negative test result does not rule out co-infections with other pathogens such as other viral or bacterial infections.
- 13. Negative results are presumptive, do not rule out COVID-19 and it may be necessary to obtain additional testing with a molecular assay, if needed for patient management.
- 14. A negative test result is not intended to rule out other viral or bacterial infections.
- 15. 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. The performance of this test was established based on the evaluation of a limited number of clinical specimens collected between March and May 2021. Clinical performance has not been established with 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.

# PERFORMANCE CHARACTERISTICS

### Clinical Sensitivity, Specificity and Accuracy

The performance of Flowflex COVID-19 Antigen Home Test was established in an all-comers clinical study conducted between March 2021 and May 2021 with 172 nasal swabs self-collected or pair-collected by another study participant from 108 individual symptomatic patients (within 7 days of onset) suspected of COVID-19 and 64 asymptomatic patients. All subjects were screened for the presence or absence of COVID-19 symptoms within two weeks of study enrollment. 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 Flowflex 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 Flowflex COVID-19 Antigen Home Test in ALL subjects

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Flowflex COVID-19 Antigen Home Test	RT-PCR method			
Flownex COVID-19 Antigen nome test	Positive	Negative	Total	
Positive	39	0	39	
Negative	3	130	133	
Total	42 130 172			
Positive Percent Agreement (PPA)	93% (95%CI: 81% - 99%)			
Negative Percent Agreement (NPA)	100% (95%CI: 97% - 100%)			

Table 2. Performance of the Flowflex COVID-19 Antigen Home Test in Symptomatic subjects

Flowflex COVID-19 Antigen Home Test	RT-PCR method			
Flownex 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 3. Performance of the Flowflex COVID-19 Antigen Home Test in Asymptomatic subjects

Flowflex COVID-19 Antigen Home Test	RT-PCR method				
Flownex COVID-19 Antigen Home Test	Positive	Negative	Total		
Positive	11	0	11		
Negative	1	52	53		
Total	12	52	64		
Positive Percent Agreement (PPA)	92% (95%CI: 62% - 100%)				
Negative Percent Agreement (NPA)	100% (95%CI: 93% - 100%)				

Table 4. Cumulative PPA results by days since symptom onset

Days Since Symptom Onset	# Specimens Tested	# Cumulative Positive Flowflex 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%
Asymptomatic	64	11	12	92%

Patient Demographics:

A total of 172 patients participated in the clinical study. Ages of patients ranged from 2 years to 93 years. Age distribution and the positive results broken down by age of the patient are shown below.

Table 5. Age distribution of patients and specimen positivity

Ago Group	Flowflex COVID-19 Antigen Home Test (N=175)				
Age Group	Total	Total Positive	Prevalence		
2-13 years	18	5	28%		
14- 24 years	25	4	16%		
25- 64 years	94	21	23%		
≥ 65 years	35	9	27%		
Total	172	39	23%		

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

The Limit of Detection (LoD) of the Flowflex 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 µL of each virus dilution onto the swab. The contrived swab samples were processed and tested according to the package insert.

<u> </u>	3 1 3	
SARS-CoV-2 Concentration in nasal matrix	Number of Positives/Total	% Detected
2.5 x 10 <sup>3</sup> TCID <sub>50</sub> /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 10 $^{3}$  TCID<sub>50</sub>/mL

#### 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.

Adenovirus 1.14 x 10 <sup>6</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Enterovirus 2.50 x 10 <sup>6</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Human coronavirus 229E 1.04 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Human coronavirus OC43 2.63 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Human coronavirus NL63 1.0 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Human Metapneumovirus 1.25 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference MERS-coronavirus 7.90 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Influenza A 1.04 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Influenza B 1.04 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Parainfluenza virus 1 1.25 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Parainfluenza virus 2 3.78 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Parainfluenza virus 3 1.0 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Parainfluenza virus 4 2.88 x 10 <sup>6</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Chlamydia pneumonia 3.5 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Chlamydia pneumonia 3.5 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Chlamydia trachomatis 3.13 x 10 <sup>6</sup> CFU/mL No cross-reactivity No Interference Legionella pneumophila 4.08 x 10 <sup>6</sup> CFU/mL No cross-reactivity No Interference Humanophilius influenzae 1.36 x 10 <sup>6</sup> CFU/mL No cross-reactivity No Interference Staphylococcus epidermidis 2.32 x 10 <sup>6</sup> CFU/mL No cross-reactivity No Interference Nycobacterium tuberculosis 1.72 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference Staphylococcus pineumoniae 1.04 x 10 <sup>6</sup> CFU/mL No cross-reactivity No Interference Nycobacterium tuberculosis 1.72 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference Steptococcus pineumoniae 1.04 x 10 <sup>6</sup> CFU/mL No cross-reactivity No Interference No Interference No Inte	Potential Cross Reactant		Test Concentration	Cross-Reactivity Results	Interference Results
Human coronavirus 229E		Adenovirus	1.14 x 10 <sup>6</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Human coronavirus OC43		Enterovirus	9.50 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Human coronavirus NL63		Human coronavirus 229E	1.04 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Human Metapneumovirus   1.25 x 10 <sup>5</sup> TCID <sub>50</sub> /mL   No cross-reactivity   No Interference		Human coronavirus OC43	2.63 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Virus    MERS-coronavirus		Human coronavirus NL63	1.0 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Virus Influenza A		Human Metapneumovirus	1.25 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Influenza B		MERS-coronavirus	7.90 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Parainfluenza virus 1 1.25 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Parainfluenza virus 2 3.78 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Parainfluenza virus 3 1.0 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Parainfluenza virus 4 2.88 x 10 <sup>6</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 4.28 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial vi	Virus	Influenza A	1.04 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Parainfluenza virus 2 3.78 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Parainfluenza virus 3 1.0 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Parainfluenza virus 4 2.88 x 10 <sup>6</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Rhinovirus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Rhinovirus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Chlamydia pretussis 2.83 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference Chlamydia pneumonia 3.5 x 10 <sup>7</sup> IFU/mL No cross-reactivity No Interference Chlamydia trachomatis 3.13 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference Haemophilus influenzae 1.36 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference Legionella pneumophila 4.08 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference Mycobacterium tuberculosis 1.72 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference Staphylococcus aureus 1.38 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference Staphylococcus epidermidis 2.32 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference Streptococcus pneumoniae 1.04 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference Streptococcus pyogenes 4.10 x 10 <sup>6</sup> CFU/mL No cross-reactivity No Interference Preumocystis jirovecii-S. Cerevisiae 8.63 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference Pseudomonas aeruginosa 1.87 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference		Influenza B	1.04 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Parainfluenza virus 3  1.0 x 10 <sup>5</sup> TCID <sub>50</sub> /mL  No cross-reactivity  No Interference  Parainfluenza virus 4  2.88 x 10 <sup>6</sup> TCID <sub>50</sub> /mL  No cross-reactivity  No Interference  Respiratory syncytial virus  3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL  No cross-reactivity  No Interference  Rinnovirus  3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL  No cross-reactivity  No Interference  Bordetella pertussis  2.83 x 10 <sup>9</sup> CFU/mL  No cross-reactivity  No Interference  Chlamydia pneumonia  3.5 x 10 <sup>7</sup> IFU/mL  No cross-reactivity  No Interference  Chlamydia trachomatis  3.13 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference  Haemophilus influenzae  1.36 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference  Legionella pneumophila  4.08 x 10 <sup>9</sup> CFU/mL  No cross-reactivity  No Interference  Mycobacterium tuberculosis  1.72 x 10 <sup>7</sup> CFU/mL  No cross-reactivity  No Interference  Staphylococcus aureus  1.38 x 10 <sup>7</sup> CFU/mL  No cross-reactivity  No Interference  Staphylococcus epidermidis  2.32 x 10 <sup>9</sup> CFU/mL  No cross-reactivity  No Interference  Streptococcus pneumoniae  1.04 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference  Streptococcus pyogenes  Pneumocystis jirovecii-S.  cerevisiae  Pseudomonas aeruginosa  1.87 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference		Parainfluenza virus 1	1.25 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Parainfluenza virus 4  2.88 x 10 <sup>6</sup> TCID <sub>50</sub> /mL  Respiratory syncytial virus  3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL  No cross-reactivity  No Interference  Rhinovirus  3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL  No cross-reactivity  No Interference  Bordetella pertussis  2.83 x 10 <sup>9</sup> CFU/mL  No cross-reactivity  No Interference  Chlamydia pneumonia  3.5 x 10 <sup>7</sup> IFU/mL  No cross-reactivity  No Interference  Chlamydia trachomatis  3.13 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference  Haemophilus influenzae  1.36 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference  Legionella pneumophila  4.08 x 10 <sup>9</sup> CFU/mL  No cross-reactivity  No Interference  Mycobacterium tuberculosis  1.72 x 10 <sup>7</sup> CFU/mL  No cross-reactivity  No Interference  Mycoplasma pneumoniae  7.90 x 10 <sup>7</sup> CFU/mL  No cross-reactivity  No Interference  Staphylococcus aureus  1.38 x 10 <sup>7</sup> CFU/mL  No cross-reactivity  No Interference  Staphylococcus epidermidis  2.32 x 10 <sup>9</sup> CFU/mL  No cross-reactivity  No Interference  Streptococcus pneumoniae  1.04 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference  Streptococcus pneumoniae  1.04 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference  Preumocystis jirovecii-S.  Cerevisiae  Pseudomonas aeruginosa  1.87 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference		Parainfluenza virus 2	3.78 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Respiratory syncytial virus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Rhinovirus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference Bordetella pertussis 2.83 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference Chlamydia pneumonia 3.5 x 10 <sup>7</sup> IFU/mL No cross-reactivity No Interference Chlamydia trachomatis 3.13 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference Haemophilus influenzae 1.36 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference Legionella pneumophila 4.08 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference Mycoplasma pneumoniae 7.90 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference Staphylococcus aureus 1.38 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference Staphylococcus epidermidis 2.32 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference Streptococcus pneumoniae 1.04 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference Streptococcus pyogenes 4.10 x 10 <sup>6</sup> CFU/mL No cross-reactivity No Interference Pneumocystis jirovecii-S. cerevisiae 8.63 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference No Interferen		Parainfluenza virus 3	1.0 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Rhinovirus 3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL No cross-reactivity No Interference  Bordetella pertussis 2.83 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference  Chlamydia pneumonia 3.5 x 10 <sup>7</sup> IFU/mL No cross-reactivity No Interference  Chlamydia trachomatis 3.13 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference  Haemophilus influenzae 1.36 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference  Legionella pneumophila 4.08 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference  Mycobacterium tuberculosis 1.72 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference  Mycoplasma pneumoniae 7.90 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference  Staphylococcus aureus 1.38 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference  Staphylococcus epidermidis 2.32 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference  Streptococcus pneumoniae 1.04 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference  Streptococcus pyogenes 4.10 x 10 <sup>6</sup> CFU/mL No cross-reactivity No Interference  Pneumocystis jirovecii-S. cerevisiae 8.63 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference  Pseudomonas aeruginosa 1.87 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference		Parainfluenza virus 4	2.88 x 10 <sup>6</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Bacteria  Bacter		Respiratory syncytial virus	3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Chlamydia pneumonia  3.5 x 10 <sup>7</sup> IFU/mL  No cross-reactivity  No Interference  Chlamydia trachomatis  3.13 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference  Haemophilus influenzae  Legionella pneumophila  4.08 x 10 <sup>9</sup> CFU/mL  No cross-reactivity  No Interference  Mycobacterium tuberculosis  1.72 x 10 <sup>7</sup> CFU/mL  No cross-reactivity  No Interference  Mycoplasma pneumoniae  7.90 x 10 <sup>7</sup> CFU/mL  No cross-reactivity  No Interference  Staphylococcus aureus  Staphylococcus epidermidis  2.32 x 10 <sup>9</sup> CFU/mL  No cross-reactivity  No Interference  Steptococcus pneumoniae  Streptococcus pneumoniae  Streptococcus pneumoniae  Streptococcus pyogenes  4.10 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference		Rhinovirus	3.15 x 10 <sup>5</sup> TCID <sub>50</sub> /mL	No cross-reactivity	No Interference
Bacteria  Bacteria  Chlamydia trachomatis  3.13 x 108 CFU/mL  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 107 CFU/mL  No cross-reactivity  No Interference  Mycoplasma pneumoniae  7.90 x 107 CFU/mL  No cross-reactivity  No Interference  Staphylococcus aureus  1.38 x 107 CFU/mL  No cross-reactivity  No Interference  Staphylococcus epidermidis  2.32 x 109 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 106 CFU/mL  No cross-reactivity  No Interference  Pneumocystis jirovecii-S.  cerevisiae  Pseudomonas aeruginosa  1.87 x 108 CFU/mL  No cross-reactivity  No Interference		Bordetella pertussis		No cross-reactivity	No Interference
Bacteria  Haemophilus influenzae Legionella pneumophila A.08 x 10 <sup>9</sup> CFU/mL No cross-reactivity No Interference Mycobacterium tuberculosis 1.72 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference Mycoplasma pneumoniae 7.90 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference Staphylococcus aureus Staphylococcus epidermidis Streptococcus pneumoniae 1.04 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference Streptococcus pneumoniae 1.04 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference Streptococcus pneumoniae 1.04 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference Pneumocystis jirovecii-S. Cerevisiae  Readomonas aeruginosa 1.87 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference No cross-reactivity No Interference		Chlamydia pneumonia	3.5 x 10 <sup>7</sup> IFU/mL	No cross-reactivity	No Interference
Bacteria    Bacteria   Legionella pneumophila   4.08 x 10 <sup>9</sup> CFU/mL   No cross-reactivity   No Interference   Mycobacterium tuberculosis   1.72 x 10 <sup>7</sup> CFU/mL   No cross-reactivity   No Interference   Mycoplasma pneumoniae   7.90 x 10 <sup>7</sup> CFU/mL   No cross-reactivity   No Interference   Staphylococcus aureus   1.38 x 10 <sup>7</sup> CFU/mL   No cross-reactivity   No Interference   Staphylococcus epidermidis   2.32 x 10 <sup>9</sup> CFU/mL   No cross-reactivity   No Interference   Streptococcus pneumoniae   1.04 x 10 <sup>8</sup> CFU/mL   No cross-reactivity   No Interference   Streptococcus pyogenes   4.10 x 10 <sup>6</sup> CFU/mL   No cross-reactivity   No Interference   Pneumocystis jirovecii-S.   8.63 x 10 <sup>7</sup> CFU/mL   No cross-reactivity   No Interference   Pseudomonas aeruginosa   1.87 x 10 <sup>8</sup> CFU/mL   No cross-reactivity   No Interference   No In		Chlamydia trachomatis	3.13 x 108 CFU/mL	No cross-reactivity	No Interference
Bacteria    Mycobacterium tuberculosis   1.72 x 10 <sup>7</sup> CFU/mL   No cross-reactivity   No Interference		Haemophilus influenzae	1.36 x 108 CFU/mL	No cross-reactivity	No Interference
Bacteria    Mycoplasma pneumoniae		Legionella pneumophila	4.08 x 109 CFU/mL	No cross-reactivity	No Interference
Staphylococcus aureus  Staphylococcus epidermidis  Staphylococcus epidermidis  Steptococcus pneumoniae  Streptococcus pneumoniae  Streptococcus pyogenes  A-10 x 10 <sup>8</sup> CFU/mL  No cross-reactivity  No Interference			1.72 x 10 <sup>7</sup> CFU/mL	No cross-reactivity	No Interference
Staphylococcus aureus   1.38 x 10 <sup>7</sup> CFU/mL   No cross-reactivity   No Interference	Pactorio	Mycoplasma pneumoniae	7.90 x 10 <sup>7</sup> 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 106 CFU/mL       No cross-reactivity       No Interference         Pneumocystis jirovecii-S. cerevisiae       8.63 x 107 CFU/mL       No cross-reactivity       No Interference         Pseudomonas aeruginosa       1.87 x 108 CFU/mL       No cross-reactivity       No Interference	Daciena	Staphylococcus aureus	1.38 x 10 <sup>7</sup> CFU/mL	No cross-reactivity	No Interference
Streptococcus pyogenes       4.10 x 10 <sup>6</sup> CFU/mL       No cross-reactivity       No Interference         Pneumocystis jirovecii-S. cerevisiae       8.63 x 10 <sup>7</sup> CFU/mL       No cross-reactivity       No Interference         Pseudomonas aeruginosa       1.87 x 10 <sup>8</sup> CFU/mL       No cross-reactivity       No Interference		Staphylococcus epidermidis	2.32 x 109 CFU/mL	No cross-reactivity	No Interference
Pneumocystis jirovecii-S. cerevisiae 8.63 x 10 <sup>7</sup> CFU/mL No cross-reactivity No Interference  Pseudomonas aeruginosa 1.87 x 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference		Streptococcus pneumoniae	1.04 x 108 CFU/mL	No cross-reactivity	No Interference
cerevisiae  8.63 X 10' CFU/mL No cross-reactivity No Interference  Pseudomonas aeruginosa  1.87 X 10 <sup>8</sup> CFU/mL No cross-reactivity No Interference		Streptococcus pyogenes	4.10 x 10 <sup>6</sup> CFU/mL	No cross-reactivity	No Interference
, , , , , , , , , , , , , , , , , , ,		, ,	8.63 x 10 <sup>7</sup> CFU/mL	No cross-reactivity	No Interference
Veset Candida albicans 1.57 v.108 CELI/ml No cross-reactivity No Interference		Pseudomonas aeruginosa	1.87 x 108 CFU/mL	No cross-reactivity	No Interference
1.37 x 10 Of Office 140 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 Flow*flex* 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 Flowflex 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
luticasone 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 HCl)	Afrin	15% v/v	No cross-reactivity	No interference
Naso GEL (NeilMed)	NeilMed	5% v/v	No cross-reactivity	No interference
Sore Throat Phenol Spray	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  $10^6$  TCID50/mL of heat-inactivated SARS-CoV-2 virus (USA-WA1/2020) with the Flow*flex* 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 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.

#### BLIOGRAPHY

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- Susan R. Weiss, Julian L. Leibowitz, Coronavirus Pathogenesis, Advances in Virus Research, Volume 81: 85-164

# Index of Symbols

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



Number: 1151390303

Effective Date: 2022-03-08