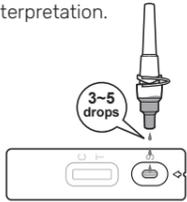


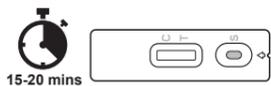
6. Add 3-5 drops about 100 µL of the processed sample into the sample (S) well. Do not handle or move the cassette until the test is completed and ready for interpretation.



7. An interpretation is available within 15-20 minutes. Some positive results may appear sooner.

CAUTION:

1. Do not read the results after 20 minutes. It may provide false results.



2. Make sure you place the test strip on a flat table. Do not move the strip during the test.

INTERPRETATION OF RESULTS

Valid Assay:

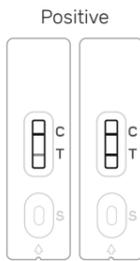
Positive:

In addition to the presence of the colored C line, if the colored T line appears, the test result indicates the presence of SARS-CoV-2 virus in the nasopharyngeal or nasal swab sample. The result is COVID-19 positive or COVID-19 reactive. Within the specified observation time, a very weak colored line should be judged as a positive result.

False positive results may occur due to cross-reacting antigens from previous infections, such as other coronaviruses, or from other causes.

Positive results should be confirmed with a molecular diagnostic test (e.g. RT-PCR) and clinical findings before a diagnostic determination is made.

For self-user, you need to contact with your healthcare provider to determine how best to care for you based on your test result(s).



Negative:

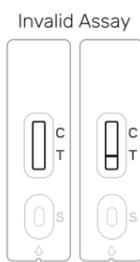
If only the colored C line appears, the test result indicates that SARS-CoV-2 virus is not detected at the time when the nasopharyngeal or nasal swab sample was collected. The result is COVID-19 negative or COVID-19 non-reactive.

Negative results do not rule out SARS-CoV-2 infection, particularly for patients who have been in contact with known infected persons or in areas with high prevalence of active infection. Follow-up testing with a molecular diagnostic test (e.g. RT-PCR) is necessary to rule out infection in these individuals.



Invalid Assay:

There should always be a colored control line in the control region regardless of the test result. If the control line is not seen, repeat the assay with a new test cassette.



Negative / High CT value :

Within a specified observation time a very weak and faded colored on T line should be judged as negative high CT value, please refer to RT-PCR result.

It is important that you work with your healthcare provider to help you understand further information on the next steps to take after testing.



QUALITY CONTROL

FORA COVID-19 Antigen Rapid Test uses the Internal Control as the mechanism for quality control. A colored Control (C) line is an internal procedural control. It confirms sufficient sample volume, adequate membrane wicking and correct procedural technique.

External positive and negative controls are not supplied with this kit; however, external positive and negative controls should be tested in consistent with good laboratory practice to confirm the test procedure and to verify proper test performance.

LIMITATIONS OF THE PROCEDURE

- The contents in this kit are to be used for the qualitative detection of SARS-CoV-2 antigens from fresh nasopharyngeal swab and fresh nasal swab specimens.
- Failure to follow the test procedure or incorrect interpretation of results may adversely affect test performance and result in invalid interpretation.
- 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.
- A negative test result may occur if the amount of virus (antigen) in a sample is below the limit of the assay or if the sample was not collected properly.
- Test results must be evaluated in conjunction with other clinical data available to the physician.
- The color of the test line has no correlation with clinical symptoms and severity. The interpretation of the test results must be evaluated together with epidemiology, clinical symptoms, and other diagnostic methods.
- Positive test results do not rule out co-infections with other viruses.
- Positive test results do not differentiate between SARS-CoV and SARS-CoV-2.
- Negative results cannot completely rule out the possibility of COVID-19 infection. The possible cause is that the amount of virus (antigen) in the sample is too low to be detected or the sample is not collected properly. Negative results must be determined with a WHO authorized molecular assay.
- Users should test samples as quickly as possible after sample collection.
- If the differentiation of specific SARS viruses and strains is needed, additional testing, in consultation with local public health departments, is required.

ANALYTICAL PERFORMANCE

Limit of Detection (LoD)

The Limit of Detection (LoD) of FORA COVID-19 Antigen Rapid Test was determined using limiting dilutions of live SARS-CoV-2, isolate TWN/CG-MH-CGU-01. The material was supplied frozen at a concentration of 10^{5.4} TCID₅₀ per mL. The study to determine the FORA COVID-19 Antigen Rapid Test LoD was designed to reflect the assay when using direct nasopharyngeal or nasal swab.

In this study, all the SARS-CoV-2 serial dilutions were made in the SARS-CoV-2 negative nasopharyngeal swab pool.

The LoD was determined in three steps:

- LoD Screening**
10-fold dilutions of the live SARS-CoV-2 were made as described above. These dilutions were tested in triplicate. The concentration demonstrating 3 of 3 positives was chosen for LoD range finding. Based on this testing, the concentration chosen for LoD Range Finding was 10^{2.4} TCID₅₀ per mL.
- LoD Range Finding**
Five (5) 2-fold dilutions of the 10^{2.4} TCID₅₀ per mL concentration were made as described above. These dilutions were tested in triplicate. The concentration demonstrating 3 of 3 positives was chosen for LoD confirmation. Based on this test the concentration chosen was 1.26 x 10² TCID₅₀ per mL.
- LoD Confirmation**
The concentration 1.26x10² TCID₅₀ per mL dilution was tested for a total of twenty (20) results. Twenty (20) of twenty (20) results were positive. Based on this test the concentration of LoD was confirmed as 1.26 x 10² TCID₅₀ per mL.

Cross-Reactivity

Cross-reactivity of the FORA COVID-19 Antigen Rapid Test was evaluated by testing various viruses (17) and bacteria (19). Each virus or bacteria was tested in triplicate in the absence or presence of 3.78 x 10² TCID₅₀/mL (3 LoD) of live SARS-CoV-2. The final concentration of each virus or bacteria was listed in the Table below. Testing was performed in triplicate.

Based on the data generated by this study, each virus or bacteria tested with FORA COVID-19 Antigen Rapid Test does not cross-react or interfere.

Clinical Performance

Clinical performance of FORA COVID-19 Antigen Rapid Test was determined by testing 103 positive and 268 negative specimens for SARS CoV-2 antigen (Ag) to have a sensitivity of 94.2% (95%CI: 87.9%-97.3%) and specificity of 99.6% (95%CI: 97.9%-99.9%).

FORA COVID-19 Antigen Rapid Test (TD-4531)	PCR Test Result	Positive	Negative	Subtotal
		Positive	97	1
Negative	6	267	273	
Subtotal	103	268	371	
Sensitivity	94.2% (95%CI: 87.9%-97.3%)			
Specificity	99.6% (95%CI: 97.9%-99.9%)			

Cross-Reactivity: FORA COVID-19 Antigen Rapid Test - Wet Testing

Virus/Bacteria	Concentration	Cross-Reactive Results	SARS-CoV-2 Concentration (3 LoD)	Interference Results
Human Coronavirus OC43	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Human Coronavirus 229E	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Influenza A · H1N1	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Influenza A · H3N2	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Influenza B · Victoria	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Influenza B · Yamagata	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Respiratory syncytial virus	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Rhinovirus	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Adenovirus type 1 (Adenoid 71)	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Adenovirus type 7	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Enterovirus 68	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Human parainfluenza type 1	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Human parainfluenza type 2	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Human parainfluenza type 3	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Human parainfluenza type 4	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Respiratory syncytial virus type A	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Respiratory syncytial virus type B	2.5 x 10 ³ pfu/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Bordetella pertussis	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Chlamydia pneumoniae	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Corynebacterium sp.	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Escherichia coli	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Hemophilus influenzae	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Lactobacillus sp.	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Moraxella catarrhalis	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Mycobacterium tuberculosis (avirulent)	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Neisseria meningitidis	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Neisseria sp.	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Pseudomonas aeruginosa	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Staphylococcus aureus (Protein A producer)	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Staphylococcus epidermidis	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Streptococcus pneumoniae	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Streptococcus pyogenes	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Streptococcus salivarius	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Pooled human nasal wash - representative of normal respiratory microbial flora	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Mycoplasma pneumoniae	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Legionella Pneumophila	2 x 10 ³ CFU/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive

Interference Substances Studies

A study was performed demonstrate that twenty (20) potentially interfering substances that may be found in the upper respiratory tract do not cross-react or interfere with the detection of SARS-CoV-2 in FORA COVID-19 Antigen Rapid Test. Each substance was tested in triplicate in the absence or presence of 3.78 x 10² TCID₅₀/mL (3 LoD) of live SARS-CoV-2.

Based on the data generated by this study, the substances tested FORA COVID-19 Antigen Rapid Test do not cross-react or interfere.

Interfering Substance	Active Ingredient	Concentration	Cross-Reactive Results	SARS-CoV-2 Concentration (3 LoD)	Interference Results
Ephrine Nasal Spray "GCPC"	Oxymetazoline	5% v/v	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Chloraseptic, Regular strength	Benzocaine / Menthol	1.5 mg/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Tamiflu	Osetamivir	2.5 mg/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Physiomer Saline nasal spray	Saline	15% v/v	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Tobrex Eye Ointment	Tobramycin	51.4 µmol/L	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Sucrets	Dyclonine / Menthol	1.5 mg/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
NeilMed NasoGEL Spray	sodium hyaluronate / Saline	5% v/v	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Acetaminophen	Acetaminophen	1324 µmol/L	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Acetylsalicylic acid	Acetylsalicylic acid	3.62 mmol/L	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Ibuprofen	Ibuprofen	2.425 mmol/L	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Erythromycin	Erythromycin	81.6 µmol/L	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Fisherman's Friend	Menthol	1.5 mg/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Plaquenil	Hydroxychloroquine sulphate	150 µmol/L	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
SUPEROCIN	Ciprofloxacin	30.2 µmol/L	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Zefix	Lamivudine	1 mg/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Blood (human)	Blood (human)	2.5% v/v	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Ricola	Menthol	1.5 mg/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Mupirocin	Mupirocin	10 mg/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Flonase	Fluticasone	5% v/v	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive
Purified mucin protein	Mucin protein	2.5 mg/mL	Negative	3.78 x 10 ² TCID ₅₀ /mL	Positive

SYMBOL INFORMAION

SYMBOL	REFERENT	SYMBOL	REFERENT
IVD	In vitro diagnostic medical device	⊗	Do not re-use
🕒	Use-by date	📖	Consult instructions for use
LOT	Batch code	🏭	Manufacturer
🌡️	Temperature limit	EC REP	Authorized representative in the European Community
CE	CE mark	REF	Model number
🚫	Do not use if package is damaged	⚠️	Contains sufficient for <n> tests

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