



English

COVID-19 / Influenza A&B Antigen Test Kit

Ref: CBK03 Basic UDI-DI: 888130055210GB

INTENDED USE

COVID-19/Influenza A&B Antigen Test Kit is a lateral flow immunoassay that qualitatively detects SARS-CoV-2, influenza A and influenza B viral nucleoprotein antigens in nasal swabs. The symptoms of respiratory viral infection due to SARS-CoV-2 and influenza can be similar. As such, the test is intended as an aid in diagnosis of symptomatic individual meeting the case definition for COVID-19 within the first 7 days of symptom onset and meeting the case definition for Influenza A&B within the first 4 days of symptoms onset.

This kit is intended for self-testing by laypersons at home or in other non-laboratory environment.

PRINCIPLE

COVID-19/Influenza A&B Antigen Test Kit qualitatively detects SARS-CoV-2, Influenza A and B antigens based on principal of immunochromatography. During testing, antigen in the specimen reacts with SARS-CoV-2 antibody-coated particles and with Influenza A antibody-coated particles as well as with Influenza B antibody-coated particles in the conjugation pad to produce the immune complex. The complex migrates along the membrane by capillary action to the test region. The complex then respectively reacts with antibodies. If the specimen does contain antigen of SARS-CoV-2, Influenza A/ B, colored line will appear in the test region, indicating a positive result.

PRECAUTIONS

- For in vitro diagnostic use only.
- 2. Do not use after the expiration date
- 3. Perform the test at room temperature 15 to 30°C.
- 4. The test cassette should remain in the sealed pouch until use
- 5. Please read all information in this leaflet before performing the test.
- 6. To avoid inaccurate results, use only the components in this test kit. Do not substitute test kit components
- 7. Positive result cannot necessarily determine whether a person is infectious.

STORAGE AND STABILITY

Store the test kit in the original packaging at 2°C - 30°C. Do not freeze. Test kit contents remain stable until the expiration date printed on the outer packaging.

After opening the pouch, the test should be used within one hour. Prolonged contact with hot and humid environment will cause the product to deteriorate.

LIMITATION

- 1. In particular, false negative results may occur if the testing is not performed within the first 7 days of the onset of COVID-19 or within the first 4 days of influenza A&B symptoms or if the antigen level in the sample is below the detection limit.
- 2. The tests are less reliable in the later phase of infection and in asymptomatic individuals.
- Repeat antigen rapid testing is recommended every 24 hours for 3 days if there is a suspicion of infection, exposure to high-risk settings or other occupational risk.
- 4. A negative result does not rule out infection with another type of respiratory virus. And a positive result cannot necessarily determine whether a person is infectious.
- 5. The test can only be used once.
- 6. Test can only be performed by person over 15 years age. Any persons or children under 15 years will require adult supervision or assistance. Not to be performed on children under 2 years of age.

SAFETY INFORMATION

Wearing a mask can help protect you and those around you if you are in an area with community transmission and physical distancing is not possible.

Follow the directions of your local state or territory government health department to protect yourself.

Test kit solutions should only be used as directed; do not ingest; do not dip the swab into provided solution or other liquid before inserting the swab into the nose; avoid contact with skin and eyes; keep out of the reach of children and pets before and after use. If the extraction buffer comes in contact with the skin or eyes, flush with plenty of water. If irritation persists, seek medical advice from a doctor or your local medical centre.

CLINICAL PERFORMANCE

For COVID-19

COVID-19/Influenza A&B Antigen Test Kit used by professional was compared to the RT-PCR kit. A sensitivity of 95.59% (282/295) and a specificity of 99.05% (628/634) were determined for the COVID-19 (SARS-CoV-2) Antigen Test Kit.

For influenza A test

COVID-19/Influenza A&B Antigen Test Kit used by professional was compared to the RT-PCR kit. A sensitivity of 93.38%(254/272) and a specificity of 98.14%(766/773) were determined for the COVID-19/Influenza A&B Antigen Test Kit.

For influenza B test

Using COVID-19/Influenza A&B Antigen Test Kit by professional was compared to the RT-PCR kit. A sensitivity of 92.72%(242/261) and a specificity of 99.00%(792/800) were determined for the COVID-19/Influenza A&B Antigen Test Kit.

Usability Study

110 lay users of different ages, education level and gender participated in the usability study conducted in the self-testing environment. Compared to RT-PCR, the clinical performance of COVID-19/Influenza A+B Antigen Test kit in the hands of lay persons showed a sensitivity of 92.3% (95% confidence interval: 79.68%-97.35%, N=39) and a specificity of 97.18% (95% confidence interval: 90.30%-99.22%, N=71) for COVID-19 antigen, a sensitivity of 87.5% (95% confidence interval: 73.89%-94.54%, N=40) and a specificity of 97.14% (95% confidence interval: 73.89%-94.64%, N=40) and a specificity of 97.14% (95% confidence interval: 76.95%-96.04%, N=40) and a specificity of 95.71% (95% confidence interval: 88.14%-98.53%, N=70) for influenza B antigen.

LIMIT OF DETECTION (ANALYTICAL SENSITIVITY)

Virus Lines	LoD Titer (TCID so /mL)
SARS-CoV-2 wild type	1.0×10 ²
Flu A H1N1/Wisconsin/588/2019	2.08×10 ³
Flu A H3N2/SouthAustralia/34/2019	7.76×10²
Flu B Austria/1359417/2021(Victoria lineage)	2.84×10³
Flu B Phuket/3073/2013 (Yamagata lineage)	1.08×10 ⁴
Flu A H1N1/Bejing/262/95	3.105×10²
Flu A H3N2/Shangdong/9/93	2.26×10²
Flu B Victoria lineage/Shandong/7/97	1.825×10³
Flu B Yamagata lineage/Jiangsu/10/03	2.44×10³

FREQUENTLY ASKED QUESTIONS

1. Will other diseases affect the result?

The potential cross-reactivity of the following pathogens was evaluated with SARS-CoV-2, Influenza A and B negative and positive samples using the COVID-19/Influenza A&B Antigen Test Kit. No cross-reactivity was observed.

Virus or organisms				
Human coronavirus NL63	Influenza A H5N1 virus	Coxsackie virus CA16e		
Human coronavirus HKU1	Influenza B Yamagata	Coxsackie virus B5		
Human coronavirus Oc43	Influenza B Victoria	Coxsackie virus A24		
Human coronavirus 229E	Haemophilus influenzae	Candida albicans		
MERS-CoV	Adenovirus 1	Human MetapneumovirusA2		
Respiratory syncytial virus Type A	Adenovirus 2	Legionella pneumophila		
Respiratory syncytial virus Type B	Adenovirus 3	Mycobacterium tuberculosis		
Parainfluenza virus 1	Adenovirus 4	Mycoplasma pneumoniae		
Parainfluenza virus 2	Adenovirus 5	Pneumocystis jiroveci		
Parainfluenza virus 3	Adenovirus 7	Streptococcus pneumoniae		
Parainfluenza virus 4	Adenovirus 55	Staphylococcus aureus		
Seasonal influenza A H1N1 virus	Enterovirus EV70	Rhinovirus A2		
Influenza A H3N2 virus	Bordetella pertussis	Rhinovirus B52		
SARS-CoV-1	Chlamydia pneumoniae	Streptococcus pyogenes		

2. Do these substances interfere with the test ?

Samples were spiked with the following substances and tested with the COVID-19/Influenza A&B Antigen Test Kit. No interference was observed.

Mucin	Phenylephrine Hydrochloride	Histamine hydrochloride
Human blood (EDTA anticoagulated)	Arbidol	Alpha interferon
Bedomethasonedipropionatenasalaerosol	Zanamivir	Azithromycin
physiological seawater nasal spray	Ribavirin	Oseltamivir phosphate
Triamcinolone acetonide nasal spray	Peramivir	Meropenem
Mometasone furoate nasal spray	Lopinavir	Tobramycin
Fluticasone propionate nasal spray	Ritonavir	Hexadecadrol
Budesonide nasal spray	Levofloxacin	Flunisolide
Oxymetazoline hydrochloride spray	Ceftriaxone	

. Will this test hurt?

No, the nasal swab is not sharp and it should not hurt. Sometimes the swab can feel slightly uncomfortable or tickly. If you feel pain, please stop the test and seek advice from a healthcare provider.

4. I have a nosebleed after swabbing my nose. What should I do?

In the unlikely event your nose starts bleeding, apply pressure to your nose until the bleeding stops and consult a healthcare professional. Do not insert the Swab again.

5. Can the test detect various variants of COVID-19 ?

Yes, the following SARS-CoV-2 variants can be detected with the COVID-19 (SARS-CoV-2) Antigen Test Kit: Alpha, Beta, Gamma, Delta and Omicron.

6. Which strains of influenza the test covers ?

B/SichuanGaoxin/531/2018 B/Hong Kong/3417/2014	B/Austria/1359417/2021 B/Washington/02/2019	B/Brisbane/60/200
	Influenza B	
A/Guizhou/54/89	A/Singapore/INFMH-16-0019/20	16
A/SouthAustralia/34/2019	A/Wisconsin/588/2019 A/Darwin/6/2021 A/Bean Goose/Hubei/chenhu XVI35-1/2016	
V/Darwin/9/2021		
A/California/04/2009		
A/RR/8/34	A/Hong Kong/45/2019	A/Hong Kong/2671/2019
VShanghai/2/2013	A/Switzerland/8060/2017	A/Michigan/45/2015
V/Vietnam/HN31242/2007	A/Victoria/2570/2019	A/Brisbane/02/2018

Influenza A

SYMBOLS

2	Do not re-use	>	Use-by date
2°C - 30°C	Store between 2-30°C	*	Keep away from sunlight
IVD	In vitro diagnostic medical device	Ť	Keep dry
(Ii	Consult instructions for use	8	Do not use if package is damaged and consult instructions for use
LOT	Batch code		Manufacturer
Z	Contains sufficient for <n> tests</n>	REF	Catalogue number

Before using, please read the instructions.

Product Owner

Camtech Diagnostics Pte. Ltd.

- Address.: 5 Jalan Kilang Barat, Petro Centre, #01-01, Singapore 159349
- Contact: 217 Henderson Road #04-08, Singapore 159555
 E-mail: info@camtech.org
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Instructions Version and Date

Version No.: CBK03 IFU 2502 Effective Date: 3.4 2025

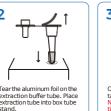


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Note: Use test only one time.



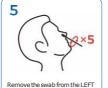
















tubea and rotate the swab against Remove the swab while the walls of the tube 5 times. Allow squeezing the sides of the tube to extract the liquid from the the swab to stand in the extraction



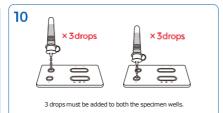
Materials required but not provided : Time

For the sterilized swab

CE 0197 MDR 2017/745 EU Hangzhou Yiguoren Biotechnology Co., Ltd.







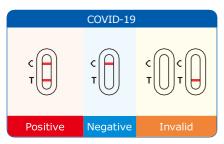


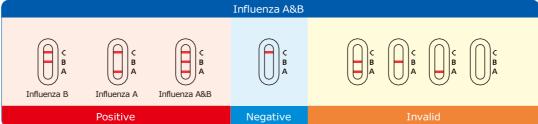






after test completion





COVID-19 POSITIVE: Two colored lines appears on the membrane. One line appears in the control region (C) and the other line appears in the test region (T). COVID-19 NEGATIVE: Only one colored line appears in the control region (C). No colored line appears in the test region (T). COVID-19 INVALID: Control line fails to appear.

Influenza A POSITIVE: It is positive for Influenza A antigen if two Red lines appear. One red line should be in the control line region (C), and the other one appears in the A test line region. Influenza B POSITIVE: It is positive for Influenza B antigen if two Red lines appear. One red line should be in the control line region (C), and the other one appears in the B test line region. Influenza A and B POSITIVE: It is positive for both the antigens of Influenza A and Influenza B if three red lines appear. One Red line should be in the control line region (C), and another two should appear in A test line region and B test line region.

NEGATIVE: One Red line appears in the control region (C). No red line appears in the influenza A and B test region (T). INVALID: Control line fails to appear.

Caution:

- For COVID-19 positive results: Follow the guidance from your Local Territory Health Department for reporting of positive results and confirmation testing if required. If unwell, seek medical assistance.
- For Influenza positive results: If you have a positive result or are unwell, contact a medical practitioner for follow up clinical care.
- For negative results: A negative result does not mean you do not have COVID-19, Influenza A, and/or Influenza B. If symptoms persist or you feel unwell, please contact a medical practitioner for follow up clinical care.
- For Invalid result : Please retest with a new test cassette and a freshly collected specimen. Report repeated invalid results to the Product Owner.



COVID-19 Positive Influenza B Negative Influenza A Negative



COVID-19 Positive Influenza B Positive Influenza A Negative



COVID-19 Positive Influenza B Negative



COVID-19 Positive Influenza B Positive







COVID-19 Negative Influenza B Positive Influenza A Negative



COVID-19 Negative Influenza B Negative Influenza A Positive



COVID-19 Negative Influenza B Positive Influenza A Positive

A weak C line could be observed in some cases where strong SARS-CoV-2 positive results are obtained.