



COVID-19& Influenza A+B & RSV Antigen Combo Test Kit (LFA)

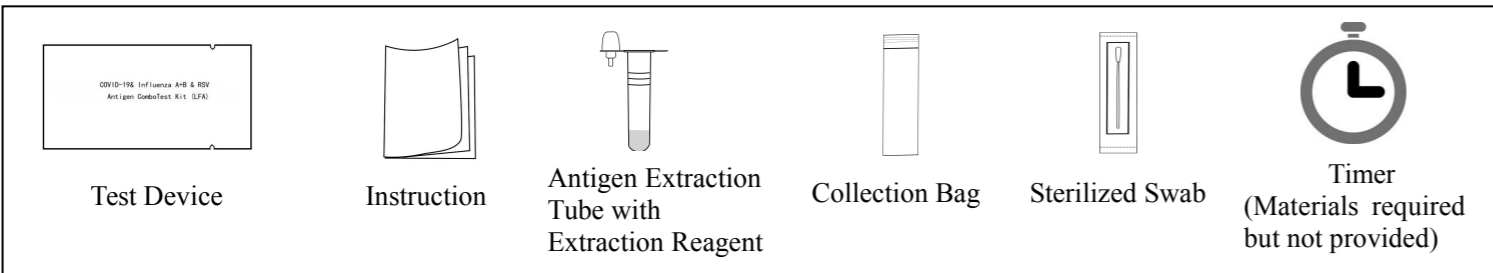
Operational Use Video

**For in vitro diagnostic use only. For self-testing.
Please read the instruction carefully before use.**

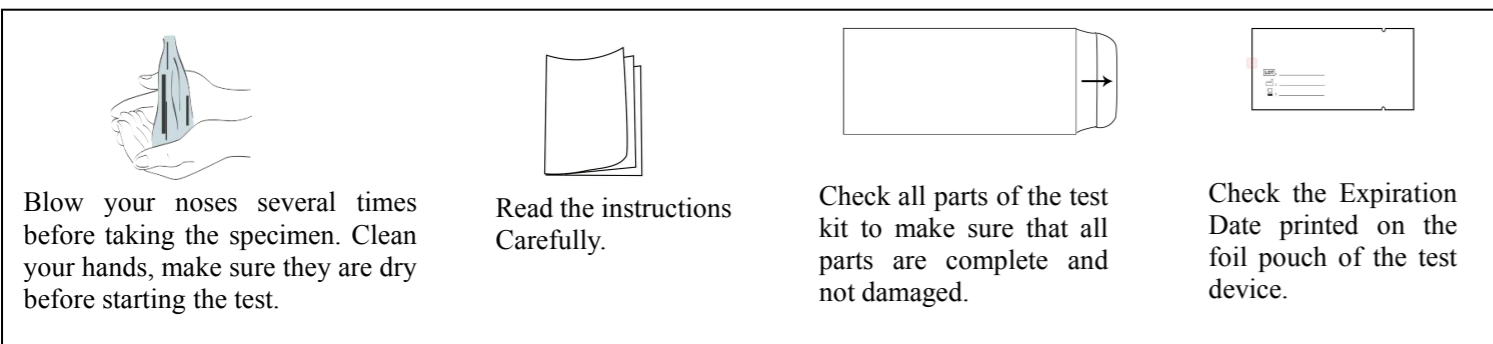
[Intended use]

This product is used for the qualitative detection of COVID-19, influenza A, influenza B and respiratory syncytial virus (RSV) in human nasal swab specimens. It is a non-automated rapid test method for infection. This test is authorized for non-prescription home use with self-collected anterior nasal (nares) swab samples from individuals. Individuals who test positive should seek follow up care with their physician or healthcare provider as additional testing may be necessary. Users under the age of 15 should complete the test with supervision of an adult.

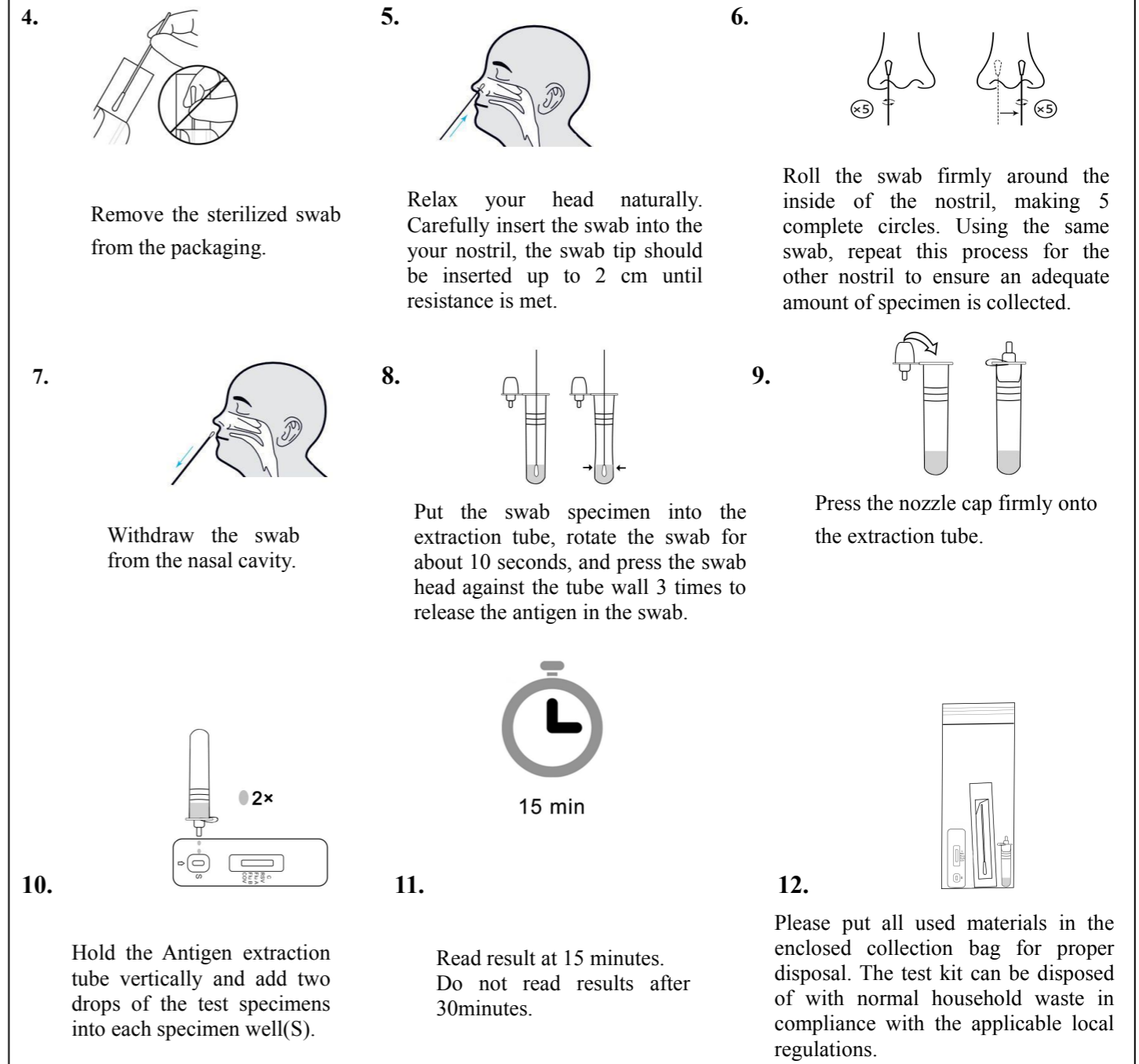
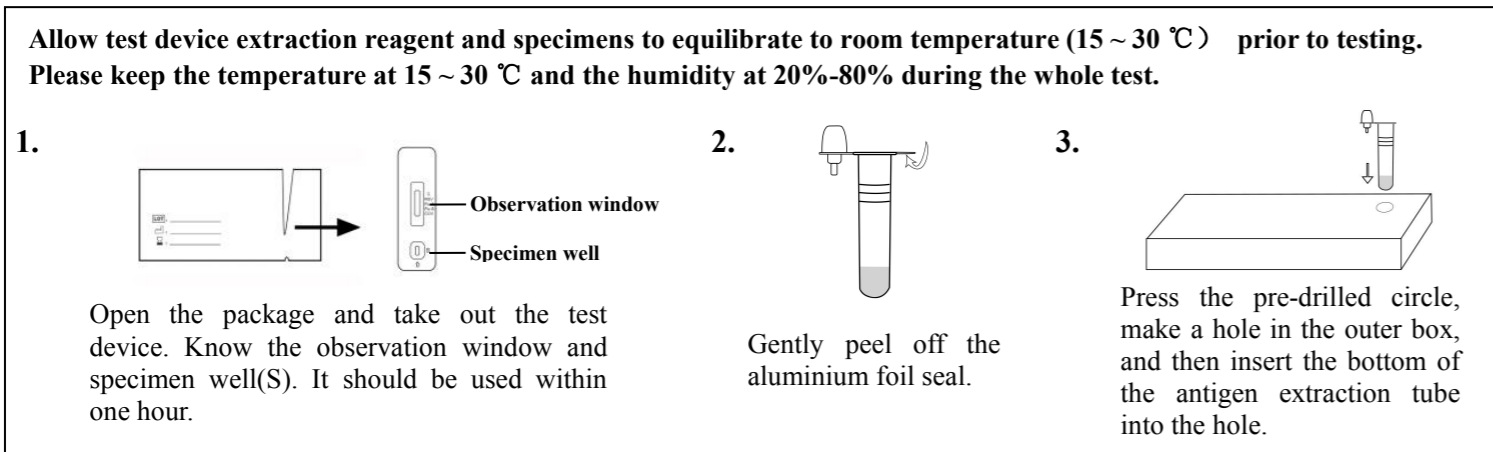
[Materials and Components]



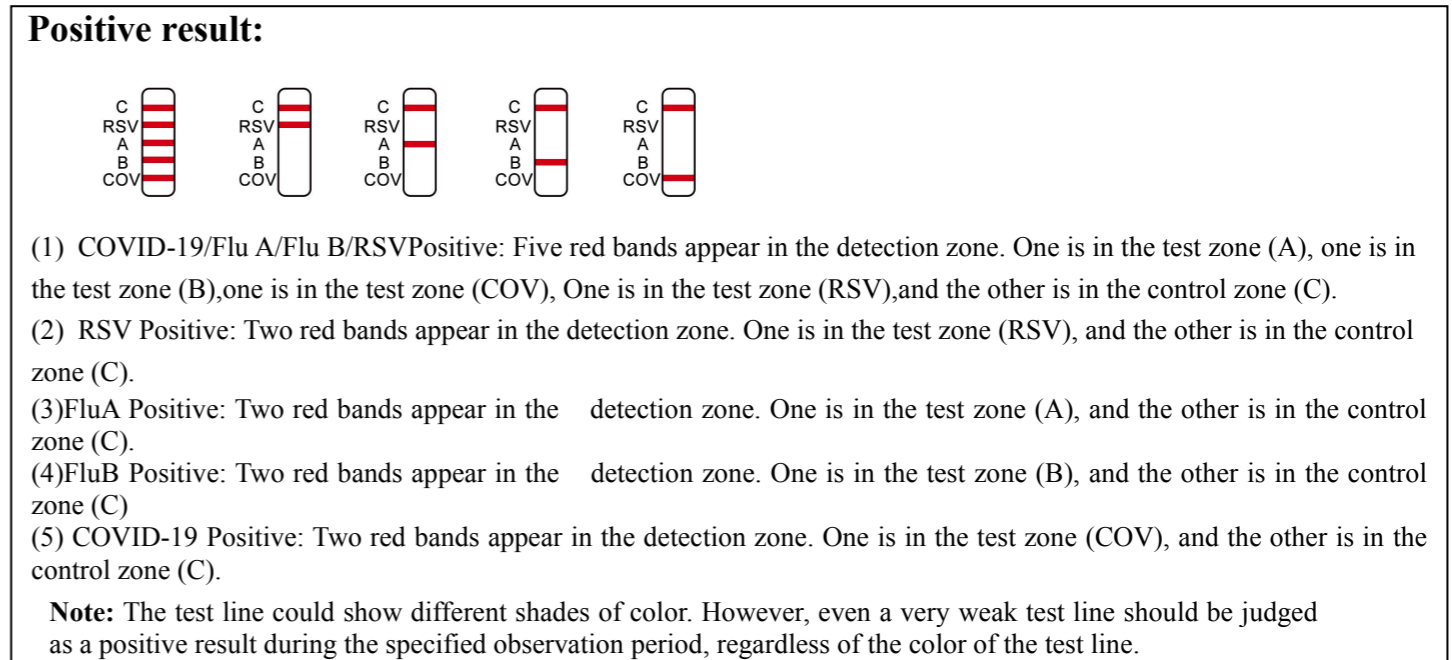
[Preparation before the test]



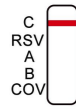
[Test Procedure]



[Interpretation of test results]

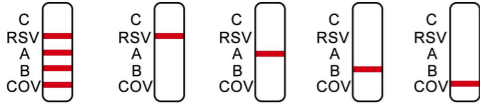


Negative result:



If only quality control line C, test line T or test line A or test line B or test line COV or test line RSV are colorless, it means that no antigen of corresponding pathogen is detected, and the result is negative.

Invalid result:



If the quality control line C is not observed, it will be invalid regardless of whether there is test line T or test line A or test line B or test line COV or test line RSV, and the test shall be conducted again.

[Summary]

COVID-19

The novel corona viruses belong to the β genus. COVID-19 is an acute respiratory infectious disease. People are generally susceptible. Currently, the patients infected by the novel corona virus 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. Once infected with the SARS-CoV-2 virus, you may be hospitalized and some complications may occur.

Influenza

Influenza, usually called "flu", is an acute respiratory infectious disease caused by influenza viruses. It is highly contagious and is spread mainly through coughing and sneezing. It usually breaks out in spring and winter. Divided into influenza A virus, influenza B virus and influenza C virus. Influenza A virus has strong variability, followed by influenza B virus, and influenza C virus is very stable, so influenza A virus is more serious and prevalent than influenza B virus.

Respiratory syncytial virus (RSV)

Respiratory syncytial virus is a common, and very contagious, virus that infects the respiratory tract of most children before their second birthday. In children hospitalized with RSV infection, it is believed to be the most common viral cause of death in children younger than 5 years, particularly in children younger than one year. RSV infection can cause cold-like symptoms, including a cough and runny nose, which usually last 1 to 2 weeks. Respiratory syncytial virus spreads through the air, like after a cough or a sneeze, and through direct contact like touching.

The gold standard method for laboratory diagnosis is the virus isolation and culture method, while the long cycle time for cell culture identification seriously affects the timely clinical guidance of patient medication, and the method is limited in clinical application. Compared with the cell culture method, reverse transcription-polymerase chain reaction (RT-PCR) has higher sensitivity, but the cost of RT-PCR method is higher, the experiment time takes 4-6 hours, and the experiment operation is more professional, so the field application is restricted. This product uses the rapid self test method and is suitable for the auxiliary diagnosis of COVID-19, influenza A, influenza B and respiratory syncytial virus (RSV) .

[Test principle]

This kit uses the double antibody-sandwich method to detect antigens. When an appropriate amount of specimen is added to the specimen well(s) of the test device, the specimen will move forward along the test device. If the specimen contains an antigen, the antigen combines with the antibody immobilized on the conjugate pad., and the immune complex forms a sandwich complex with another coated antibody which was coated on the test line, a visible colored line will show up, which indicates that the antigen is positive. The test device also contains a quality control line, regardless of whether there is a test line, the red quality control line should appear. If the quality control line does not appear, it indicates that the test result is invalid and you need to do the test again.

[Limitations of inspection methods]

1. This product is used for qualitative testing only and cannot indicate the level of antigen in the specimen.
2. Negative results may occur if the antigen titre in the specimen falls below the minimum detection limit of this kit.

3. This test kit is only a clinical auxiliary diagnostic tool. If the result is positive, it is recommended to use other methods for further examination in time and the doctor's diagnosis shall prevail.
4. Diagnosis and treatment can not only rely on this test result. Any clinical diagnosis based on the test result must be supported by a comprehensive judgment of the concerned physician including clinical symptoms and other relevant test results.
5. The accuracy of the test depends on the quality of the swab sample, false negative results may be given following poor sampling.
6. Any failure to respect the test procedure may negatively impact the performance of the test and/or invalidate the test result.
7. If the result of the test is negative, yet clinical symptoms persist, it is advised that you carry out additional tests using other clinical methods. A negative result at no time rules out the presence of antigens of the virus in the sample, as they may be present but at a level inferior to the minimum detection level of the test, or if the sample has been collected incorrectly.
8. This test is not a substitute for a medical consultation, or for the result of a biological analysis carried out in a medical analysis laboratory.

[Warnings and Precautions]

1. For *in vitro* diagnostic use.
2. Read the instructions carefully before using the kit, and strictly control the reaction time. If you do not follow the instructions, you will get inaccurate results.
3. Guard against moisture, do not open the aluminum platinum bag before it is ready for testing. Do not use it if the aluminum foil bag is damaged or the test device is damp.
4. Please use it within the validity period.
5. Balance all reagents and specimens to room temperature (15 ~ 30 °C) before use.
6. Do not replace the components in this kit with components in other kits.
7. Do not dilute the specimen when testing, otherwise you may get inaccurate results.
8. The kit shall be stored in strict accordance with the conditions specified in this manual. Please do not store the kit under freezing conditions.
9. The test methods and results must be interpreted in strict accordance with this specification.
10. Negative results may occur if the antigen titer in the specimen falls below the minimum detection limit of this kit.
11. Do not eat, drink or smoke in the area where the specimens or kits are handled. Wash hands thoroughly after finishing the tests.
12. Do not perform the test in a room with strong air flow, ie. an electric fan or strong air-conditioning.
13. Do not mix and interchange different specimens.
14. Any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the Member State in which the user and/or the patient is based.

[Storage conditions & period of validity]

1. The kit should be stored at 2-30 °C until the expiry date printed on the sealed pouch.
2. After the foil pouch is unsealed, the test device should be used as soon as possible within one hour.
3. The test device should be kept away from direct sunlight, moisture and heat.
4. Do not freeze the test kit.

[Sample Transport and Storage]

Freshly collected specimens should be processed as soon as possible. It should be no later than one hour after collection. The processed specimens could be stored at 2-8 °C for no more than 7 days.

[Quality Control]

Program control is included in the test. A red line appearing in the control region (C) is the internal procedural control. It confirms sufficient volume of the specimen.

[Performance index]

1. Physical characters

1.1. Appearance

The test should be clean and complete, no burr, no damage and non-pollution. The shell of the test cassette should be flat, the upper and lower covers should be evenly closed, and there should be no obvious gap. The inner test strip should be firmly attached without waggle. The extraction reagent should be free of foreign matter.

1.2. Size: The size of the inner strip should not be less than 2.5mm.

1.3. Liquid migration speed: It should not be less than 10mm/min.

2. Limit of detection (LOD)

Diagnostic sensitivity: 97.00%; Diagnostic specificity: >99.9%; Total compliance rate: 99.59%

Type		LOD
COVID-19		80 TCID ₅₀ /mL
Influenza A	Liao Ning/1183/2007 (H1N1)	2.2 × 10 ³ TCID ₅₀ /mL
	A/Victoria/3/75	1.16 × 10 ² TCID ₅₀ /mL
	A/HongKong/8/68	2.58 × 10 ⁴ TCID ₅₀ /mL
	A/Vietnam/1194/2004(H5N1)	2.98 × 10 ³ TCID ₅₀ /mL
	A/waterfowl/Chenhu/367-1/2021	2.05 × 10 ⁴ TCID ₅₀ /mL
	A/Wisconsin/67/2022	1.65 × 10 ³ TCID ₅₀ /mL
	A/Norway/31694/2022	1.49 × 10 ³ TCID ₅₀ /mL
	A/California/122/2022	2.89 × 10 ³ TCID ₅₀ /mL
	A/Thailand/8/2022	1.96 × 10 ³ TCID ₅₀ /mL
Influenza B	B/Phuket/3073/2013	1.78 × 10 ³ TCID ₅₀ /mL
	B/HongKong/574/2019	1.82 × 10 ³ TCID ₅₀ /mL
	Virus B/Florida/78/2015	7.8 × 10 ³ TCID ₅₀ /mL
	Jiang Xi/32/2000	2.9 × 10 ² TCID ₅₀ /mL
	B/1704	6.8 × 10 ² TCID ₅₀ /mL
	B/Brisbane/46/2015	2.05 × 10 ³ TCID ₅₀ /mL
	B/Austria/1359417/2021	2.67 × 10 ³ TCID ₅₀ /mL
	B/Brisbane/1/2007	2.43 × 10 ³ TCID ₅₀ /mL
RSV	RSV	10 ng/mL
RSV A	A2, ATCC VR-26	3.35 × 10 ³ TCID ₅₀ /mL.
RSV B	WYZ9320, CH93(18)-18	3.75 × 10 ² TCID ₅₀ /mL

The LOD established with 1st International Standard for SARS-CoV-2 antigen NIBSC code: 21/368 (Version 1.0, Dated 01/11/2022) is 10 IU/ mL.

3. Cross reaction:

The cross-reactivity of this reagent is evaluated by testing a group of related pathogens, high-prevalence disease pathogens, and normal or pathogenic flora. The results prove that the product has no cross-reactivity, including Staphylococcus aureus, Streptococcus pneumoniae, Measles virus, Mumps virus, Bordetella pertussis, EB virus, Rhinovirus, Chlamydia pneumoniae, Adenovirus, Human Metapneumovirus, Human coronavirus OC43, Human coronavirus 229E, Human coronavirus NL63, MERS coronavirus, Legionella pneumophila, Parainfluenza virus, Mycobacterium tuberculosis, Mycoplasma pneumoniae, Enterovirus, Staphylococcus epidermidis, Streptococcus pyogenes, Haemophilus influenzae, Candida albicans, Pseudomonas aeruginosa, Streptococcus salivarius. Moreover, there is no cross-reactivity among the four viruses tested by this kit.

4. Interfering substances

Common interfering substances in the sample (such as blood, mucus, and pus) as well as common medications for respiratory diseases and nasal sprays do not affect the test results.

5. Clinical performance

5.1 COVID-19 Rapid Test:

A total of 727 samples were collected in this study, of which 100 were positive and 627 were negative. The statistics of the study results are shown in the following table:

Reference RT-PCR analysis					95% Wilson Score CI			
					LCI		UCI	
DEEPBLUE COVID-19 Test		POS	NEG	Total	PPA	97.00%	91.55%	98.97%
	POS	97	0	97	NPA	>99.9%	99.39%	100%
	NEG	3	627	630	Total compliance rate 99.59%			
	TOTAL	100	627	727				

5.2 Influenza A Rapid Test:

A total of 727 samples were collected in this study, of which 102 were positive and 625 were negative. The statistics of the study results are shown in the following table:

Reference RT-PCR analysis					95% Wilson Score CI			
					LCI		UCI	
DEEPBLUE Influenza A Test		POS	NEG	Total	PPA	96.08%	90.35%	98.46%
	POS	98	0	98	NPA	>99.9%	99.39%	100%
	NEG	4	625	629	Total compliance rate 99.45%			
	TOTAL	102	625	727				

Diagnostic sensitivity: 96.08%; Diagnostic specificity: >99.9%; Total compliance rate: 99.45%

5.3 Influenza B Rapid Test:

A total of 727 samples were collected in this study, of which 101 were positive and 626 were negative. The statistics of the study results are shown in the following table:

Reference RT-PCR analysis					95% Wilson Score CI			
					LCI		UCI	
DEEPBLUE Influenza B Test		POS	NEG	Total	PPA	97.03%	91.63%	98.98%
	POS	98	0	98	NPA	>99.9%	99.39%	100%
	NEG	3	626	629	Total compliance rate 99.59%			
	TOTAL	101	626	727				

Diagnostic sensitivity: 97.03%; Diagnostic specificity: >99.9%; Total compliance rate: 99.59%













5.4 RSV Antigen Rapid Test:


A total of 727 samples were collected in this study, of which 103 were positive and 624 were negative. The statistics of the study results are shown in the following table:

Reference RT-PCR analysis					95% Wilson Score CI			
					LCI		UCI	
DEEPBLUE RSV Test		POS	NEG	Total	PPA	95.15%	89.14%	97.91%
	POS	98	0	98	NPA	>99.9%	99.39%	100%
	NEG	5	624	629	Total compliance rate 99.31%			
	TOTAL	103	624	727				

Diagnostic sensitivity: 95.15%; Diagnostic specificity: >99.9%; Total compliance rate: 99.31%

[Index of Symbols]

	In vitro diagnostic medical device		Do not re-use		Keep away from sunlight
	Use-by date		Consult instructions for use or consult electronic instructions for use		Date of manufacture
	Caution		Manufacturer		Do not use if package is damaged and consult instructions for use
	Temperature limit		Batch code		Contains sufficient for <n> tests

EU REP	Authorized representative in the European Union		Keep dry	CE 3018	CE Mark
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The Safety Data Sheet (SDS) can be obtained via e-mail.

Specification	REF
1 piece per box	CFR1NST-1
2 pieces per box	CFR1NST-2
5 pieces per box	CFR1NST-5
10 pieces per box	CFR1NST-10



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