Flu A/Flu B Antigen Rapid Test Kit (immunochromatographic assay) BioTeke



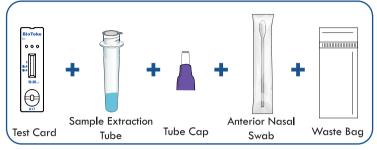


- ·1. Read this instruction guide carefully.
- ·2. Prepare a watch(or a clock/timer), tissues and either hand sanitizer or soap and warm water.
- ·3. Check the test kit contents. Make sure that nothing is damaged or broken.

- -For anterior nasal swabs.
- -Please read the instructions carefully before you begin testing.







- Note: Test cards kept at low temperature should be restored to room temperature before opening to avoid moisture absorption.
- Note: Materials required but not provided
 - (1) Watch (or a clock/timer),
 - (2) Tissues.
 - (3) Hand sanitizer / soap.



Wash your hands thoroughly for at least 20 seconds before the test.







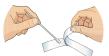
Put the tube into the kit box holder and aently peel off the aluminum foil sea



NOTE:Please blow your nose before collection.

Remove the swab from its wrapper and take out the swab by holding the handle. Being careful not to touch the fabric tip of the swab with your hands.

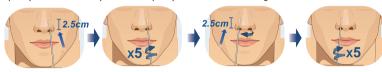








Gently insert the swab into your nostril less than one inch (about 2.5cm). Slowly rub the swab against all of the inside walls of your nostril. Make at least 5 big circles. Do not just spin the swab. Repeat this step in your other nostril using the same swab.



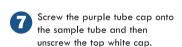
NOTE: With children, the maximum depth of insertion into the nostril may be less than 3/4 inch.

Insert the swab into the sample tube. Touch the bottom of the sample tube with the swab tip, and stir at least 5 times. Squeeze the swab in the tube through the outer wall of the tube by finger 5 times.



Remove the swab by rotating against the sample tube while squeezing the sides of the tube to release the liquid from the swab. Remove and discard the swab into waste bag provided.









Open the pouch and take out the Test Card. Place it on a flat, dry and clean surface. Turn the tube integrated dropper capupside down and slowly squeeze 3 drops onto the sample well of the Test Card.









Results Interpretation



The test results should not be read after 30 minutes.

(Positive)

Influenza A (Flu A) positive: Two red lines appear in the test window. One red line is in the (C) section and another red line is in the (Flu A) section.

Influenza B (Flu B) positive: Two red lines appear in the test window. One red line is in the (C) section and another red line is in the (Flu B) section.

Multiple positive:

Three red lines appear in the test window,

Note: A positive result means that you are likely to be infected with influenza A/influenza B. Test results should always be considered in the context of clinical observations when making







(Negative)

A red line in the test window but no line appear at the determination part influenza A/influenza B. A negative result does not exclude the absence of influenza A, or influenza B infection and should not be used as the sole basis for treatment or patient management decisions. Negative results should be considered in the context of the individual's recent exposure history, medical history and the presence of dinical signs and symptoms consistent with Influenza A, Influenza B, and confirmed by PCR testing as necessary for patient management.



(Invalid)

If the control (C) line do not invalid

that your test has encountered an error and the results cannot be interpreted. You will need to retest using a new test card.











All used test components should be disposed of in your household waste. After completing all steps, wash hands or use hand sanitizer.









USER INSTRUCTION

Flu A/Flu B Antigen Rapid Test Kit (immunochromatographic assay)

PRODUCT NAME

Flu A/Flu B Antigen Rapid Test Kit (immunochromatographic assay)

PACKAGE SPECIFICATION

1 Test/Kit; 2 Tests/Kit; 20 Tests/Kit.

INTENDED USE

This kit is only used for the in vitro qualitative detection of Influenza A virus and Influenza B virus from human anterior nasal swab specimens. Flu A/Flu B Antigen Rapid Test Kit (immunochromatographic assay) is an immunochromatographic double-antibody sandwich assay intended for the qualitative detection and differentiation of Influenza A virus and Influenza B virus from individuals who are suspected of respiratory tract disease infection. This kit is suitable for the auxiliary diagnosis of respiratory diseases, the results are for clinical reference only and cannot be used as the sole basis for diagnosis and exclusion decision. The clinical diagnosis and treatment of patients should be considered in combination with their symptoms/signs, medical history, other laboratory tests and treatment responses. Positive test result needs to be further confirmed, negative result does not preclude respiratory diseases viruses infection.

TEST PRINCIPLE

The kit is immunochromatographic and uses double-antibody sandwich method to detect Influenza A virus / Influenza B virus antigen. During detection, the treated specimens are loaded into the sample wells of the test card . When the concentration of Influenza A virus/Influenza B virus antigen in specimen is higher than the minimum detection limit, the viral antigen will form complexes with labeled antibodies first. Under chromatography, the complexes move forward along the nitrocellulose membrane till captured by pre-coated monoclonal antibody of Influenza A virus/Influenza B virus in detection zone on nitrocellulose film Flu A/Flu B to form a red/red/red reaction line on the detection zone, at this point the result is positive; conversely, if there is no viral antigen or the concentration of antigen in specimen is below the minimum detection limit, no red reaction line appears in the detection zone, at this point the result is negative. Regardless of whether the sample contains viral antigens or not, a red reaction line will appear in the quality control zone (C), the red reaction line that appears in the quality control zone (C) is the criterion for determining if the chromatography process is

MATERIALS PROVIDED

The test kit consists of test card, sample extraction tube, tube cap anterior pasal swab and waste bag.

	Main	Loading quantity (Specification)					
Components	Ingredients	1 Test/Kit	2 Tests/Kit	20 Tests/Kit			
Test card	Test strip containing specific Influenza A virus- /Influenza B virus- monoclonal antibody, Anti-mouse IgG polyclonal antibody	1pc	2pcs	20pcs			
	Sample extraction tube	1pc	2pcs	20pcs			
Tube cap		1pc	2pcs	20pcs			
	Anterior nasal swab	1pc	2pcs	20pcs			
Waste bag		1pc	2pcs	20pcs			

- 1. Test cards are sealed together with desiccant in aluminum foil pouch.
- 2. Do not mix use different batches of test cards and sample tube

STORAGE CONDITIONS AND SHELF LIFE

The test card and sample extraction tube should be stored at 2°C~30°C, valid for 24 months. Test cards should be used as soon as possible within 1 hour after opening the foil pouch. The bottle of sample extraction tube should be capped immediately after use and stored at 2°C~30°C, please use it within the validity period

Date of manufacture and expiration: See package label for details.

SPECIMEN REQUIREMENTS

The swab specimen should be tested immediately after collection.

LIMITATIONS OF THE TEST

- 1. The test results of this kit are only for the reference of clinicians and should not be used as the sole basis for clinical diagnosis and treatment. Clinical management of patients should be considered in the context of their symptoms/signs, medical history, other laboratory tests and response to treatment.
- 2. Sample collection and sample processing have a greater impact on the detection of pathogens, and a negative test result does not exclude the possibility of a viral infection. 3. Due to methodological limitations of antigen-based test, the analytical sensitivity of immunochromatographic method is generally lower than that of nucleic acid-based test. Therefore, the test provider should pay more attention to the negative results and make a comprehensive judgment based on other test results. It is suggested that the negative results in suspected patients should be checked by nucleic acid test or virus culture identification
- 4. When the result of test kit is positive, it is recommended to combine the results of other methods (such as PCR and CT imaging) for further confirmation, and consult with local public health prevention institutions for treatment.
- 5. Analysis of the likelihood of false-negative results (i) Improper sample collection, transport and processing, and low viral titers in the
- sample may lead to false negative results. (ii) The optimal sample type and the optimal sampling time after infection (peak viral titer) have not been validated, therefore, multiple sampling at multiple sites in the same patient may avoid false negatives.

PERFORMANCE CHARACTERISTICS

- 1. The width of the membrane strip of this kit is not less than 2.5 mm, and the liquid migration speed is not less than 10 mm/min.
- 2. Negative/positive reference coincidence rate
- All the positive references are positive for the corresponding pathogens, which is consistent with the known results of the reference; all the negative references are negative for the corresponding pathogen.
- 3. Repeatability Repeated testing was conducted for national or enterprise repeatable reference products for 10 times. The test results were consistent with the known results of the
- reference products and were uniform in color. 4 Analytical specificity
- 1) Cross-reactivity Specific tests with different strains of the virus.
- The Influenza A virus / Influenza B virus Antigen Combination Rapid Test was tested with the following viral strains. No detectable line was observed in either test line range at these

No.	Virus/ Bacteria/Parasite name	Strain	Concentration/ CT value
1	Coronavirus HKU1	GZ/1804-138	CT: 23
2	Coronavirus OC43	VR-1558, OC43	4.2×10 ⁵ TCID ₅₀ /mL
3	Coronavirus NL63	NL63	1.6×10 ³ TCID ₅₀ /mL
4	Coronavirus 229E	229E/GZ/1801-3	5.6×10 ⁴ TCID ₅₀ /mL
5	Respiratory syncytial virus A	RSVA/GZ/Hecin1705- 74	1.3×10 ⁵ TCID ₅₀ /mL
6	Rhinovirus (group A)	A30/GZ/1710-89	4.2×10 ⁶ TCID ₅₀ /mL
7	Rhinovirus (group B)	70/FO2-2547	1.0×10 ⁶ TCID ₅₀ /mL
8	Respiratory adenovirus type 1	ADV1/GZ/Hecin1608- 21	2.4×10 ⁸ TCID ₅₀ /mL
0	Respiratory adenovirus type 2	GZ/1705-34/2017	5.6×10 ⁶ TCID ₅₀ /mL
10	Respiratory adenovirus type 3	ADV3/GZ/0101/2011	1.0×10 ⁶ TCID ₅₀ /mL
11	Respiratory adenovirus type 4	ADV4/GZ/Hecin1611- 72/2016	5.6×10 ⁵ TCID ₅₀ /mL
12	Respiratory adenovirus type 5	ADV/GZ/1801-54	1.0×10 ⁷ TCID ₅₀ /mL
13	Respiratory adenovirus type 7	ADV7/GZ/1706-198	3.2×10 ⁷ TCID ₅₀ /mL
14	Respiratory adenovirus type 55	ADV55/GZ/1612-129	3.2×10 ⁸ TCID ₅₀ /mL

	Enterovirus	CA16/Guangzhou/030	1.8×10 ⁷	
15	(CA16)	2/2011 TCID ₅₀ /ml		
16	Enterovirus	ATCC VR-39, HILL 1.0×106		
10	(Echo)		TCID ₅₀ /mL	
17	Enterovirus	EV71/Guangzhou/040	5.6×10 ⁶	
.,	(EV71)	2/2012	TCID ₅₀ /mL	
18	Epstein-barr virus capsid antigen	B95-8	CT: 17	
19	Measles virus	Edmonston	1.0×10 ⁷	
13	ivicasies virus	Editionston	TCID ₅₀ /mL	
20	Human	RC256	3.2×10 ³	
20	cytomegalovirus	110230	TCID50/mL	
21	Rotavirus	VR-2018	CT: 20	
22	Norovirus	ATCC VR-3234SD	3.6×10 ⁵ copies/µ L	
23	Mumps virus	Jones	1.0×10 ⁷ TCID ₅₀ /mL	
24	Varicella zoster virus	VR-1367	CT: 13	
05	Human Parainfluenza	PIV1/Guangzhou/0701	1.3×10 ⁷	
25	virus 1	/2011	TCID ₅₀ /mL	
00	Human Parainfluenza	PIV2/GZ/Hecin1711-	5.6×10 ⁷	
26	virus 2	34/2017	TCID₅₀/mL	
27	Human Parainfluenza	PIV3/Guangzhou/0903	3.2×10 ⁵	
21	virus 3	/2012	TCID ₅₀ /mL	
28	Human Parainfluenza virus 4a	ATCC VR-1378, M-25	4.5×10 ⁵ TCID ₅₀ /mL	
29	Human Parainfluenza	nan Parainfluenza ATCC VR-1377,		
	virus 4b	CH19503	TCID ₅₀ /mL	
30	MERS-coronavirus	EMC/2012	1.6×10⁵ TCID₅₀/mL	
31	Human metapneumovirus (hMPV)	GZ/1803-107	1.0×10 ⁵ TCID ₅₀ /mL	
32	Mycoplasma pneumoniae	ATCC 15531.	1.0×10 ⁹ copies/mL	
33	Chlamydia pneumoniae	ATCC VRJ-2282, TW- 183	4.2×10 ² TCID ₅₀ /mL	
34	Haemophilus influenzae	GIM 1.961.	4.8×10 ⁷ CFU/mL	
35	Streptococcus pneumoniae	(Klein) Chester	1.0×10 ⁶ CFU/mL	
36	Streptococcus pyogenes	ATCC 19615	1.6×10 ⁸ CFU/mL	
37	Pooled human nasal washes	N/A	100%	
38	Bordetella pertussis	GDM 1.952	2.6×10 ⁹ CFU/mL	
39	Legionella pnuemophila	Philadelphia, Brenner et al. 1.9×106 CFU/mL		
	Staphylococcus aureus	CMCC(B) 26003 2.1×10 ⁹ CFU/mL		
40		1191 (Winslow	7.7.405.0EU/	
41	Staphylococcus		7.7×10°CFU/mL	
	epidermidis Candida albicans	and Winslow) Evans CMCC(F) 129002	1.3×10° CFU/mL	

2) Interfering substance: The following interfering substances will also not interfere with the results of the kit:

No.	Potential Interfering Substances	Active Ingredient	Test concentration	No.	Potential Interfering Substances	Active Ingredient	Test concentration		
1	Antiviral drug	α−interferon	0.71mg/mL	23	Nasal corticosteroids	Triamcinolone	0.22mg/ml		
2		Zanamivir	10mg/mL	2		acetonide			
3		Ribavirin	6.42mg/L	24		Budesonide	0.128mg/mL		
4		Oseltamivir	2.14mg/L	25	corticosteroias	Mometasone	0.2mg/mL		
5		Peramivir	4.29mg/L	26		Fluticasone	0.2mg/mL		
9		Lopinavir	0.57mg/mL	27	27		Allergic		
7		Ritonavir	0.57mg/mL			symptom	Histamine	0.18mg/L	
8		Arbidol	0.43mg/mL		relief drug	Hydrochloride	_		

9	Antibiotic	Levofloxacin	0.54mg/mL	28	Throat tablets, oral anesthetics and analgesics	Menthol	1.7mg/mL
10		Azithromycin	0.36mg/mL				
11		Ceftriaxone	750mg/L				
12		Meropenem	1.07mg/mL			Ethyl 4- aminobenzoate	1.5mg/mL
13	Systemic antibacterial	Tobramycin	4.38mg/L	29			
	drugs			1	Zicam Cold		
14	Mucin	Mucin protein, Type I-S	1%	30	Remedy Nasal Gel	Sulphur	15%
15	Human blood		5%		Antibiotics.		
16		Epinephrine (phenylephrine)	0.4mg/mL	31	nasal ointment	Mupirocin	10mg/mL
17		Oxymetazoline	0.3mg/mL		Naso Gel (NellMed)	Saline	5.0% V/V
40	Nasal spray	Sodium chloride	00	32			
18		(with preservatives)	36mg/mL			Galphimia glauca, Luffa operculata, Sabadilla	1:10 dilution
19		Cromolyn sodium	15.0% V/V	33	Alkalol		
20	Nasal	Beclomethasone	0.2mg/mL	1			
21	corticosteroids	Dexamethasone	0.2mg/mL	34	Sore Throat Phenol Spray	Phenol	15.0% V/V
22	00111000101010	Flunisolide	0.1mg/mL				

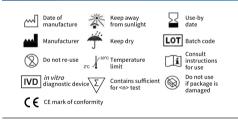
3) Hook effect: This kit doesn't have hook effect

PRECAUTIONS

- 1. This is a single-use in vitro diagnostic reagent, do not reuse, and do not use expired All test specimens must be considered potentially infectious, and during collection.
- processing, storage, mixing of specimens and testing should be taken appropriate protective measures. Therefore, wear protective measures such as wearing gloves and masks should be done and dispose of all wastes as potentially biohazardous items. (Used cotton swabs, test cards, extraction tubes, etc., should be decontaminated before disposal and tested for autoclaving.)
- 3. Use the swab and sample tube provided with this reagent for sampling, and do not mix use different batches of test cards and sample tube.
- 4. Use fresh specimens for testing, do not use repeated freeze-thaw samples.

 5. Operate at room temperature. Test cards kept at low temperature should be restored to room temperature before opening to avoid moisture absorption
- 6. Do not use reagent kits with obvious damage or test cards with damaged or expired packaging.
- The aluminum foil pouch contains desiccant and must not be taken orally.
- 8. Improper sample collection or processing may result in false-negative results.
 9. Ensure proper sample loading volume, results of too much or too little sample loading
- volume may not be credible.
- 10. If the initial screen is a positive sample, contact your local public health agency 11. As with the diagnostic reagents used, the final diagnosis should be made by a physician
- after combining the various test parameters and clinical symptoms 12. If you have any questions or suggestions on the use of this kit, please contact the
- 13. For unknown reasons, long-term use of some drugs may lead to false positive results of the test, which are not covered by the interfering substances.

SYMBOLS



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Carrer de Tapioles, 33, 2-1, 08004, Barcelona, Spain Edition: B3



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