One Step Test for SARS-CoV-2 Antigen (Colloidal Gold)(Saliva)

User Manual for self-test

IVD

CONTENTS

INTENDED USE

One Step Test for SARS-CoV-2 Antigen (Colloidal Gold) (Saliva) is intended for the qualitative detection of SARS-CoV-2 antigens in human saliva samples. This test is used for individuals suspected of COVID-19 within the first seven days of the onset of symptoms, such as headache, fever, cough, sore throat, loss of the sense of smell or taste, shortness of breath, muscle pain. Meanwhile the test can also be applied for individuals without symptoms. Results are for the identification of SARS-CoV-2 antigen. Positive results indicate the presence of SARS-CoV-2 antigens, but individual history and other diagnostic information is necessary for determine infection status. Negative results do not rule out SARS-CoV-2 infection. Negative results for individuals with symptoms similar to COVID-19 infection for more than seven days should be treated as negative possibly. If necessary, it should be confirmed by molecular assay. One Step Test for SARS-CoV-2 Antigen (Colloidal Gold) (Saliva) is intended to be used to help the diagnosis of SARS-CoV-2 infection. This test is used for self-test.

PREPARING THE TEST

1.

Check integrity of the out package, components and the expiration date.

2.

INSTRUCTION VIDEO

Read the user manual before starting the test. Check introduction video for more help.

3.

Open the pouch. Check the result window and sample well (s).

SPECIMEN COLLECTION

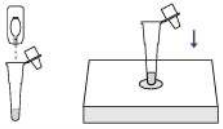
Self collection
(≥18 years)

Collection by caregiver
(<18 years, sick, elderly, disabled persons)

Note: Please follow your local guideline for specimen collection. DO NOT eat, drink, smoke, chew gum or brush your teeth for 30 minutes before taking a saliva sample.

TEST PROCEDURE

1.



Pour sample extraction solution into the disposable pipette and place it into the package.

2.

（Open the swab packaging at stick end）

3.

Press the tip of the tongue against the lower root of the jaw to concentrate the saliva. Bring the swab under the tongue for at least 20 seconds, rotate it 5 times or more to soak it completely.
Note: False negative results may occur if the swab is not fully saturated with saliva.

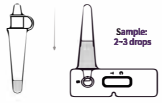
4.

Insert the swab after sampling to the disposable pipette and rotate the swab 10 times in the solution.

5.

Squeeze the swab tip along the inner wall of the disposable pipette 3 times.

6.

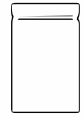


Tighten the disposable pipette, gently squeeze the disposable pipette and add 2~3 drops of solution into the sample well (s).

7.

Read the result visually in 10~15 min, don't read results after 20 min.

8.



Put all of the used test kit contents in the waste bag provided and put this in household waste. If necessary, discarded all used tests according to local regulations. Wash your hands thoroughly after disposal.

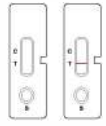
TEST RESULTS

Positive

Positive (+):
Both the control line (C) and test line (T) appear indicates the presence of SARS-CoV-2 antigen. Any faint line in the test line (T) should be considered positive.
Note: Positive results indicate the very likely infected COVID-19. Contact your doctor or the local health department immediately. Follow the local guidelines for self-isolation and confirmed by a molecular testing method.

Negative

Negative (-):
Only the control line (C) and no test line (T) appear indicates no SARS-CoV-2 antigen was detected.
Note: Negative results indicate the unlikely infected COVID-19. Continue to follow all applicable rules and protective measures when contacting with others. There may be an infection even if the test is negative. If it is suspected, repeat the test after 1 - 2 days or confirmed by a molecular testing method.



Invalid

Invalid :
Control area (C)fails to appear, the test result is invalid. Not enough sample volume or incorrect operation are the likely reasons for an invalid result. Read the instructions again and test with a new test . If the same situation reappears, please stop using this batch of products and contact your doctor or a COVID-19 test center.

STORAGE AND STABILITY

Store the test kit at 4-30°C with a valid period of 24 months.
Use the test card within 1 hour once the foil pouch is opened.

PRINCIPLE

The test uses anti-SARS-CoV-2 nucleocapsid protein (N protein) monoclonal antibody I conjugated with colloidal gold coated on the sample pad, and another anti-SARS-CoV-2 N protein monoclonal antibody Ⅱ coated on test line. After the samples have been applied to the test strip, the colloidal gold-labelled anti-SARS-CoV-2 N protein monoclonal antibody I bind with SARS-CoV-2 antigens in sample and form marked antigen-antibody complexes. These complexes move to the test card detection zone by capillary action. Then marked antigen-antibody complexes will be captured on test line by anti-SARS-CoV-2 N protein monoclonal antibody Ⅱ. The color intensity of each test line increases in proportion to the amount of SARS-CoV-2 antigen in sample.

PRECAUTIONS

1. Always keep out of the reach of children. Small parts of the kit can be a choking hazard.
2. Sample extraction solution is a phosphate buffer contained low concentration of sodium chloride, Tween, hexadecyl trimethyl ammonium bromide and sodium azide. If extraction solution splashes your body or into eyes, please wash with water.

LIMITATIONS

1. False-negative result may occur if the level of antigen in sample is below the detection limit of the test or the sample was collected incorrectly.
2. The test kit cannot differentiate between SARS-CoV and SARS-CoV-2.
3. Clinical diagnosis and treatment cannot be made without consulting with the physician.
4. A negative result, from an individual have symptoms similar to COVID-19 beyond seven days should be treated as negative possibly. If necessary, confirmed with the molecular assay.

PERFORMANCE CHARACTERISTICS

1 Limit of Detection (LoD)

The LoD for saliva was established using heat-inactivated SARS-CoV-2 isolate strain. The strain was spiked with negative human saliva into a series of concentrations. Each level was tested for 20 replicates. The confirmed LoD for saliva was 200 $TCID_{50}$/mL.

2 Clinical Agreement Study

The clinical performance of One Step Test for SARS-CoV-2 Antigen (Colloidal Gold) (Saliva) was evaluated by testing a total of 216 saliva samples. It is compared to the results of RT-PCR assays. Overall study results were shown in the tables below.

Total		RT-PCR		
		positive	negative	Subtotal
Getein's kit	positive	105	0	105
	negative	1	110	111
	subtotal	106	110	216

Positive percent agreement (Diagnostic sensitivity) = 105/ (105+1) ×100% =99.06% (95% CI: 94.85%-99.83%)
Negative percent agreement (Diagnostic specificity) = 110/ (110+0) × 100%=100.00% (95% CI: 96.63%-100.00%)
Total percent agreement = (105+110)/216× 100%=99.54% (95% CI: 97.42%-99.92%)

3 Analytical Specificity

3.1 Cross-Reactivity & Microbial Interference

Each organism and virus were tested in triplicate in the absence and presence of SARS-CoV-2 respectively. According to the test results, there was no cross-reactivity with the following viruses or organisms.

Viruses or organisms	Concentration
Human coronavirus 229E	1 x 10^5 PFU/mL
Human coronavirus OC43	1 x 10^5 PFU/mL
Human coronavirus NL63	9.87 x 10^3 PFU/mL
MERS coronavirus	7930 PFU/mL
Adenovirus (e.g. C1 Ad. 71)	1 x 10^5 PFU/mL
Human Metapneumovirus (hMPV)	1 x 10^5 PFU/mL
Parainfluenza virus Type 1	1 x 10^5 PFU/mL
Parainfluenza virus Type 2	1 x 10^5 PFU/mL
Parainfluenza virus Type 3	1 x 10^5 PFU/mL
Parainfluenza virus Type 4a	1 x 10^5 PFU/mL
Influenza A	1 x 10^5 PFU/mL
Influenza B	2.92 x 10^4 PFU/mL
Enterovirus	1 x 10^5 PFU/mL
Respiratory syncytial virus	1 x 10^5 PFU/mL
Rhinovirus	4.17 x 10^5 PFU/mL
Haemophilus influenzae	1 x 10^6 CFU/mL
Streptococcus pneumoniae	1 x 10^6 CFU/mL
Streptococcus pyogenes	1 x 10^6 CFU/mL
Candida albicans	1 x 10^6 CFU/mL
Bordetella pertussis	1 x 10^6 CFU/mL
Mycoplasma pneumoniae	1 x 10^6 CFU/mL
Chlamydia pneumoniae	1 x 10^6 CFU/mL
Legionella pneumophila	1 x 10^6 CFU/mL
Mycobacterium tuberculosis	1 x 10^6 CFU/mL
Pneumocystis jirovecii	1 x 10^6 CFU/mL
Pseudomonas Aeruginosa	1 x 10^6 CFU/mL
Staphylococcus Epidermidis	1 x 10^6 CFU/mL
Streptococcus Salivarius	1 x 10^6 CFU/mL

3.2 Interferences

The potentially interfering substances that may be found in the upper respiratory tract in subjects (including over the counter medications). No false positive or false negative results were seen at the following concentrations.

Potentially Interfering Substances	Concentration
Blood (human)	5%
Mucin	5 mg/mL
Naso GEL (NeilMed)	5% v/v
CVS Nasal Drops (phenylephrine)	15% v/v
Afrin (Oxymetazoline)	15% v/v
CVS Nasal Spray (Cromolyn)	15% v/v
Zicam Cold Remedy	5% v/v
Homeopathic (Alkalol)	10 % v/v
Sore Throat Phenol Spray	15% v/v
Antibacterial, systemic (Tobramycin)	3.3 mg/dL
Antibiotic, nasal ointment (Mupirocin)	0.15 mg/dL
Nasal corticosteroids (Fluticasone)	5% v/v
Anti-viral drugs (Tamiflu-Oseltamivir phosphate)	500 mg/dL
Biotin	0.35 mg/dL
Methanol	0.15% w/v
Diphenhydramine	0.0774 mg/dL
Dextromethorphan	0.00156 mg/dL
Dexamethasone	1.2 mg/dL

4.Precision

For repeatability study, the agreement percent of both negative samples and positive samples are 100%. For reproducibility study, the agreement percent of both negative samples and positive samples are 100%.

DESCRIPTION OF SYMBOLS USED

Key to symbols used			
	Manufacturer		Use-by date
	Do not re-use		Date of manufacture
	Consult instructions for use	LOT	Batch code
	Temperature limit	IVD	In vitro diagnostic medical device
	Contains sufficient for <n> tests	EC REP	Authorized representative in the European Community
	Keep away from sunlight		Do not use if package is damaged
REF	Catalogue number		Keep away from rain
	For self-testing		

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Add: No.9 Bofu Road, Luhe District, Nanjing, 211505, China
Tel: +86-25-68568508
Fax: +86-25-68568500
E-mail: tech@getein.com.cn overseas@getein.com.cn
Website: en.bio-gp.com.cn

EC REP CMC Medical Devices & Drugs S.L.
Add: C/ Horacio Lengo Nº 18, CP 29006, Málaga, Spain
Tel: +34951214054

Version: WCG93-DXSX-S-01

Specification (N)	REF
1 T/kit	CG20616
2 T/kit	CG206162
3 T/kit	CG206163
5 T/kit	CG206165
6 T/kit	CG206166
7 T/kit	CG206167
8 T/kit	CG206168
9 T/kit	CG206169
10 T/kit	CG2061610
12 T/kit	CG2061612
15 T/kit	CG2061615
20 T/kit	CG2061620
25 T/kit	CG2061625

SCAN ME

Sila imbas demonstrasi audiovisual

HOW TO SELF REPORTING TO MYSEJAHTERA

POSITIVE: Results shall be reported to KKM on MySejahtera App. Open the App >Press Helpdesk >Start>Select F “I am COVID-19 Positive and awaiting call from MOH”.
NEGATIVE: Please be vigilant and follow the SOP.
INVALID: Please contact the pharmacy or clinic for your replacement.

Please scan this QR Code for reporting purpose.