Fast SARS-CoV-2 IgM/IgG Antibody Detection Kit (Colloidal Gold)

Joint Research Unit: Nanjing Institute of Biomaterials and Medical Devices (Southeast University)

Suitable for large-scale screening
Simultaneous detection of both IgM and IgG antibodies
Current detection status of SARS-CoV-2:

Detection method: SARS-CoV-2 nucleic acid detection (needs to be performed in PCR laboratory)
Detection time: Generally takes more than two hours at the fastest
Detection capability: High technical threshold and needs professional laboratories, special instruments and technical staff

Due to the high cost, and long detection time, this method cannot fully meet the detection of infection suspects, let alone meet the needs of large-scale screening.

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IgM and IgG are the first antibodies appearing in the human immune system during infection. Because of their high specificity, when detecting acute SARS-CoV-2 infection, IgM and IgG antibodies have the advantages of high sensitivity, early diagnosis, and the ability to judge whether a suspect is infected.

IgM and IgG antibodies can only be produced after several days of viral infection and differ between individuals.

Using IgM/IgG antibody detection can find infections 0–7 days in advance.
Fast SARS–CoV–2 IgM/IgG Antibody Detection Kit (Colloidal Gold)

The kit detects IgM and IgG antibodies simultaneously, reducing workload and risk.

- On-site screening: Results can be read directly without equipment.
- Simple sampling: Fingertip blood and earlobe blood.
- Fast test speed: It takes 3 minutes to obtain results, and the whole process only takes 8 minutes.
- Low risk: Reduces the risk of individuals becoming infected in the hospital.

Special Notice

1. Fast test reagents can only be used as auxiliary screening tools.
2. Accuracy and detectable rate cannot reach 100%.
3. If positive samples are detected, please go to the hospital for reexamination in time.
4. The test principle of the reagent kits is not detecting the virus itself, but detecting the antibodies produced after the virus enters the body. Antibodies can be produced several days after viral infection and can be detected as early as in the 1st week. Because there are differences between individuals, multiple tests may be required.
Application Scenarios

**Center for Disease Control and Prevention**
Test on high-risk groups such as quarantined persons, contacts, and returned workers of developed cities.

**Primary Health Care Institution**
Test on suspected persons, and persons with fever and cold on site, which is convenient for immediately reporting and transferring infection-positive patients.

**Government Department / Public Institution State-Owned Enterprise / Large Company**
On duty inspection / regular screening of government staff.

**Industrial Production Enterprise**
Start-up inspection and regular screening.

**School**
Start-up inspection and regular screening.

**Prison / Detention Center / Drug Rehabilitation Center**
Regular screening.
Open the packing box, take out the inner package and let it equilibrate to room temperature. Please read the operation manual completely first, and use the kit within 1 hour after opening.

1. Wipe the blood collection part with an alcohol swab and let it dry naturally.
2. Use a peripheral blood collector to pierce 2-3 mm from the abdomen of the fingertip.
3. Take 20ul (about 1 drop) of blood with a disposable plastic dropper.
4. Add 20ul of blood from the disposable dropper to the sample diluent.
5. Close the lid tightly and shake vigorously to mix well.
6. Use another plastic dropper to pipette 100ul (about 5 drops) of the sample.
7. Add 100ul of sample to the test card sample well, and read the result after 3 minutes.
8. Wipe the residual blood at the sampling place with another alcohol swab when waiting for results.

**Result Judgement**

<table>
<thead>
<tr>
<th>Sample well S</th>
<th>Test line G</th>
<th>Test line M</th>
<th>QC line C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>IgM positive</td>
<td>IgG positive</td>
<td>Invalid</td>
</tr>
<tr>
<td>IgM + IgG positive</td>
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Positive result (+): Indicating that there may be a recent infection. Combined with relevant clinical symptoms, further testing is recommended.

Negative result (-): Indicating that there is no infection, or in very early stage or recovery period.

See the manual for details
Jiangsu Superbio Biomedical Co., Ltd.

Jiangsu Superbio Biomedical Co., Ltd., founded in August 2011, is a national high-tech enterprise integrating R&D and production. After years of development, Superbio has established a series of DNA database service centers, food/drug/environment safety testing laboratories, forensic science and medical test kit R&D centers, medical testing laboratories, biological information centers and other platforms. Superbio has cooperated with more than 20 judicial identification centers to provide judicial identification, public security technical equipment and services to more than 200 cities and 1,200 public security bureaus. The company has also established long-term cooperative scientific research relationships with well-known universities such as the People's Public Security University of China, Southwest University of Political Science & Law, and Criminal Investigation Police University of China.

Being a comprehensive provider of products, services and solutions in the field of public security, Superbio takes "Science and Technology Serves Public Security" as its mission, adheres to the customer-oriented business concept, strives for a healthy, safe and comfortable living environment for people, and is committed to becoming the best third-party testing agency.