

# RAPID SARS-COV-2 ANTIGEN TEST CARD

## INSTRUCTION GUIDE FOR ANTERIOR NASAL SWAB SPECIMENS

For self-testing

<b>REF</b>	<b>1N40C5-2</b>	<b>For 1 Test/Box</b>
<b>REF</b>	<b>1N40C5-4</b>	<b>For 5 Tests/Box</b>
<b>REF</b>	<b>1N40C5-6</b>	<b>For 20 Tests/Box</b>

Please follow the instruction leaflet carefully.

**INTENDED USE**

Rapid SARS-CoV-2 Antigen Test Card is an immunoassay based one step in vitro test. It is designed for the rapid qualitative determination of SARS-CoV-2 virus antigen in anterior nasal swabs from individuals suspected of COVID-19 within the first seven days of symptom onset. Rapid SARS-CoV-2 Antigen Test Card shall not be used as sole basis to diagnose or exclude SARS-CoV-2 infection. Children under 14 years of age should be assisted by an adult.

**SUMMARY**

The novel coronaviruses belong to the *Beta* genus. COVID-19 is an acute respiratory infectious disease. People are generally susceptible. Currently, the patients infected by the novel coronavirus 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.

**MATERIALS PROVIDED**

Components	For 1 Test/Box	For 5 Tests/Box	For 20 Tests/Box
Rapid SARS-CoV-2 Antigen Test Card (sealed foil pouch)	1	5	20
Swab	1	5	20
Extraction tube	1	5	20
Sample extraction buffer	1	5	20
Instructions for use (this leaflet)	1	1	1
Tube stand	1 (packaging)	1	1

**PERFORMANCES (SENSITIVITY AND SPECIFICITY)**

Rapid SARS-CoV-2-Antigen Test Card was compared to the confirmed clinical diagnosis. The Study involved 156 samples.

Sensitivity	96.7%
Specificity	99.20%
Accuracy	98.2%

A negative study demonstrated that:

- 99.10% of non professionals carried out the test without requiring assistance

- 97.87% of the different types of results were interpreted correctly

**INTERFERENCES**

None of the following substances at the tested concentration showed any interference with the test.

Whole blood: 1%

Phenylephrine: 15%

Menthol: 0.15%

Fluticasone Propionate: 5%

Osceltamivir Phosphate: 0.5%

Biotin: 1200 ng/ml

Krople: 1%

Tobramycin: 0.0004%

Cromolyn: 15%

Mupirocin: 0.25%

Zicam Nasal Spray: 5%

sodium chloride: 5%

Human Anti-mouse Antibody (HAMA): 60 ng/ml

IMPORTANT INFORMATION BEFORE THE EXECUTION

Read the instructions before use.

Do not use the product beyond the expiration date.

Store the test device at 4 to 30°C in the original sealed pouch. Do Not Freeze.

The product should be used at room temperature (15°C to 30°C). If the product has been stored in a cool area (less than 15°C), leave it at normal room temperature for 30 minutes before using.

Handle all specimens as potentially infectious.

It is important to ensure proper collection, storage, and transport may yield inaccurate test results.

Correct specimen collection is the most important step in the procedure. Make sure to collect enough specimen material (nasal secretion) with the swab, especially for anterior nasal sampling.

Blow the nose several times before collecting specimen.

The specimens should be tested as soon as possible after collection.

Apply the test strip to SARS-CoV-2. Dzieci ponizej 14 r. powinny wykonywać test z pomocą osoby dorosłej.

When used as intended, there should not be any contact with the extraction buffer. In case of contact with skin, eyes, mouth or other parts, rinse with clear water. If an irritation persists, consult a medical professional.

Children under 14 years of age should be assisted by an adult.

**LIMITATIONS**

1. The test should be used exclusively for the qualitative detection of SARS-CoV-2 viral antigen in anterior nasal swab specimens. The exact concentration of SARS-CoV-2 viral antigen cannot be determined as part of this test.

2. Proper specimen collection is critical. Failure to follow the procedure may result in inaccurate test results. Improper collection, storage, or even freezing and thawing of the specimen can lead to inaccurate test results.

3. If the viral load of the specimen is below the detection limit of the test, the test may produce a negative result.

4. As with all diagnostic tests, a definitive clinical diagnosis should not be based on the result of a single test, but should be made by the physician after evaluation of all clinical and laboratory results.

5. A negative result does not exclude viral infection except for SARS-CoV-2 and should be confirmed by molecular diagnostic methods if COVID-19 is suspected.

6. A positive result does not exclude coinfection with other pathogens.

7. The SARS-CoV-2 rapid antigen test can detect both viable and non-viable SARS-CoV-2 material. The performance of the SARS-CoV-2 rapid test is dependent on viral load and may not correlate with other diagnostic methods performed on the same specimen.

8. Use short swabs as soon as possible after specimen collection and within two hours of specimen collection.

9. Specimens from nasal or oropharyngeal swabs. It is recommended to use the nasopharyngeal swab specimens by healthcare professionals.

10. Monoclonal antibodies may fail to detect, or detect with less sensitivity. SARS-CoV-2 viruses that have undergone minor amino acid changes in the target peptide region.

11. The amount of antigen in a sample may decrease as the duration of illness increases. Specimens collected after day 5-7 of illness are more likely to be tested negative compared to a RT-PCR assay.

12. The test may differ with the associated swabs. Use of alternative swabs may result in false negative results.

13. The validity of Rapid SARS-CoV-2 Antigen Test Card has not been proven for identification/confirmation of tissue culture isolates and should not be used in this capacity.

14. Cross-reactivity of the Test Device was evaluated by testing viruses and other microorganisms. The final test concentrations of viruses and other microorganisms are documented in the Cross-Reactivity-Study. The therefore following viruses and other microorganisms except the Human SARS-coronavirus have no effect on the results of the Test Device. Positive test results do not rule out co-infections of tissue culture isolates and should not be used in this capacity.

PREPARATION

● Clean and dry a flat surface.

● Check the test kit contents. Make sure that nothing is damaged or broken.

● Timer at hand.

● Blow your nose several times before collecting specimen.

● Wash hands.

**DISPOSAL**

The test kit may be disposed of with normal household waste in accordance with the applicable local regulations.

**PROCEDURE**

This test kit is suitable for people of all ages. The recommended operators are aging from 14 to 90. Children under 14 years of age should be tested by an adult. Do not continue the test if the child feels any pain.



1. Rotate the lid of sample extraction buffer bottle.

Caution: Open it away from your face and be careful not to spill any of the liquid.



2. Squeeze all extraction buffer out of the bottle into the extraction tube.

Caution: Avoid touching the bottle against the tube.



3. Soft tip Handle Find the swab in the sealed wrapper in front of you. Identify the soft, fabric tip of the swab.



4. Peel open the swab packaging and gently take out the swab.

Caution: Never touch the soft, fabric tip of the swab with your hands.



5. Carefully insert swab into one nostril. The swab tip should be inserted no less than 2.5 cm (1 inch) from the edge of the nostril. Roll swab 3-4 times along the mucosa inside the nostril. Leave swab in the nostril for several seconds. Using the same swab, repeat this process for the other nostril. Withdraw swab from the nasal cavity.

Caution: This may feel uncomfortable. Do not insert the swab any deeper if you feel strong resistance or pain.



6. Place swab into extraction tube. Roll swab three to five (3-5) times. Leave swab in extraction buffer for 1 minute.



7. Pinch extraction tube with fingers and remove the solution from swab as much as possible.



8. Install the nozzle cap onto the sample extraction tube tightly.



9. Bring the kit components to room temperature before testing. Open the pouch and remove the card. Place the card on a flat and level surface.

Caution: Once opened, the test card must be used immediately.



10. Invert the extraction tube and add 3 drops (about 75 µl) of test specimen into the specimen well (S) by gently squeezing the extraction tube.

Caution: The formation of air bubbles in the specimen well (S) must be avoided.



11. Read the results at 15-20 minutes.

Caution: Results after 20 minutes may not be accurate.

The used device may be disposed of with normal household waste in accordance with the applicable local regulations.



INTERPRETATION OF RESULTS

**Positive:**

If two colored bands appear with one colored band in the Control Zone (C) and another in the Test Zone (T) within 15-20 minutes, the test result is positive.

**Caution: No matter how faint the colored band is in the Test Zone (T), the result should be considered as positive.**



**Negative:**

If one colored band appears in the Control Zone (C) and no colored band appears in the Test Zone (T) within 15-20 minutes, the test result is negative.



**Invalid:**

If no color appears in the control area (C) within 15-20 minutes, the test is invalid. Repeat the test with a new test card.



**Invalide:**

The control line is an integrated reagent and is used to control the procedure. The control line appears when the test has been performed correctly and the reagents are reactive.

**FREQUENTLY ASKED QUESTIONS (FAQ)**

1. How does the detection work?

The N protein of the SARS-CoV-2 virus reacts with the stripe-like coating of the test line and, if present, results in a color change, i.e. a red line appears.

2. When shouldn't I use my test?

You can test yourself whether you have symptoms or not. Studies show that earlier testing within the first 4 days of illness typically means a higher viral load, which is easier to detect. Since the test result is a snapshot valid for that point in time, testing should be repeated as recommended by local authorities.

3. What can affect my test result? What should I pay attention to?

Be sure to blow your nose multiple times before collecting the specimen.

Be sure to collect several nasal material (nasal secretions).

Perform the test directly after taking the sample.

Follow the instructions for use carefully.

Apply the drops of extraction solution only to the sample well (S).

Too many or too few drops of extraction solution can lead to an invalid or incorrect test result.

4. The test strip is clearly discolored or smudged? What is the reason for this?

Please note that the test strip is only valid for 15-20 minutes. The liquid absorption of the test strip is naturally limited. If the control line does not appear or the test strip is discolored or discolored, it is irreparable, please repeat the test according to the instructions.

5. I have taken the test, but I don't see a control line (C). What should I do?

Your test result is invalid. Observe the answer to question 4 and repeat the test according to the instructions for use.

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