

*A rapid test for the qualitative and differential detection of SARS-CoV-2, Influenza virus type A and type B nucleoprotein antigens in nasal swab or nasopharyngeal swab.*

## INTENDED USE

The SARS-CoV-2 & Influenza A/B Ag Combo Rapid Test is a lateral flow chromatographic immunoassay for the qualitative and differential detection of SARS-CoV-2, Influenza virus type A and type B nucleoprotein antigens in nasal swab and nasopharyngeal swab specimens directly from individuals who are suspected of influenza or SARS-CoV-2 by their healthcare provider. Results are for the identification of SARS-CoV-2 and Influenza A/B nucleocapsid antigens. These antigens are generally detectable in upper respiratory specimens during the acute phase of infection. Positive results indicate the presence of viral antigens, but clinical correlation with patient history and other diagnostic information is necessary to determine infection status. Negative results do not preclude SARS-CoV-2 or influenza virus infections and should not be used as the sole basis for treatment or other patient management decisions.

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. Influenza is an acute respiratory disease caused by influenza viruses (type A, type B and type C), which is highly infectious and has a short window period. Influenza A and B viruses circulate and cause seasonal epidemics of disease. Influenza A virus poses a greater risk as compared to the influenza B virus. Based on the current epidemiological investigation, the incubation period is generally 1 to 7 days, most of which are 2 to 4 days. Influenza patients usually have symptoms of high fever, headache, muscle pain and fatigue, accompanied by respiratory symptoms, such as sore throat, cough, and sputum. The disease is self-limiting, but infants, the elderly, and patients with underlying cardiopulmonary diseases are prone to severe complications such as pneumonia that can lead to death.

The SARS-CoV-2 & Influenza A/B Ag Combo Rapid Test are immobilized with mouse monoclonal anti-SARS-CoV-2 antibodies, anti-Influenza A and anti-Influenza B antibodies. The selected antibodies can specifically recognize SARS-CoV-2, influenza A and B virus nucleoprotein antigen. Anti-SARS-CoV-2, anti-Influenza A and anti-Influenza B antibodies are conjugated with colored particles and pre-treated on the label pad and other anti-SARS-CoV-2, anti-Influenza A and anti-Influenza B Antibodies are pre-coated on the membrane. When specimens are processed and added to the test cassette, if SARS-CoV-2, Influenza A or Influenza B antigen is present in the specimen, the antigen will react with the antibody on the label pad. Then the mixture migrates upward on the membrane by capillary action, and the SARS-CoV-2 or Influenza antigen will react with another antibody pre-coated on the membrane. Test results are interpreted visually at 15-30 minutes based on the presence or absence of visually colored lines.

To serve as a procedure control, a colored line will always appear in the control line region indicating that proper volume of specimen has been added and membrane wicking has occurred.

The test cassette contains anti-SARS-CoV-2 antibodies, anti-Influenza A antibodies and anti-Influenza B antibodies.

- For professional *in vitro* diagnostic use only. Do not use after the expiration date.
- This package insert must be read completely before performing the test. Failure to follow directions in the insert may cause inaccurate test results.
- Do not use the test if the pouch is damaged.
- Handle all specimens as if they contain infectious agents. Observe established precautions against biological hazards throughout testing and follow the standard procedures for proper disposal of specimens.
- Wear protective clothing such as laboratory coats, face mask, disposable gloves, and eye protection when specimens are being tested.
- The used test should be discarded according to local regulations.
- Humidity and temperature can adversely affect results.
- Do not eat, drink, or smoke in the area where the specimens or kits are handled.
- Do not use nasal sprays for at least 30 minutes before collecting a nasal swab specimen.

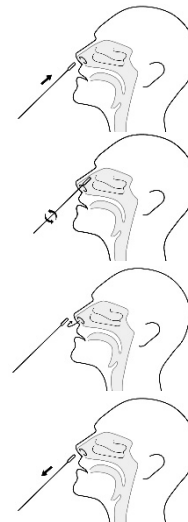
- The test kit should be stored at temperatures between 2 - 30 °C.
- The test is stable until the expiration date printed on the sealed pouch.
- The test must remain in the sealed pouch until use.
- DO NOT FREEZE.
- Do not use after the expiration date.

- Test Cassettes
- Disposable Swabs\*
- Extraction Buffer Tubes
- Package Insert

*\* The Disposable Swab is a medical device which produced by another manufacturer. Either Nasal Swabs, or Nasopharyngeal Swabs are supplied in the kit depending on the package you ordered.*

- Personal Protective Equipment
- Timer

- The SARS-CoV-2 & Influenza A/B Ag Combo Rapid Test can be performed using *Nasal swabs* or *Nasopharyngeal swabs* specimens.
- Testing should be performed immediately after specimen collection, or at most within one (1) hour after specimen collection, if stored at room temperature (15 - 30°C).
- **To collect a Nasal Swab sample:**
  1. Carefully insert the Disposable Nasal Swab, provided with your kit, into one nostril. Using gentle rotation, insert the swab into the nostril to less than 2.5 cm (1 inch) from the edge of the nostril.



2. Rotate the swab 5 times against the mucosa inside the nostril to ensure sufficient specimen collection.
3. Using the same swab, repeat the process in the other nostril to ensure that an adequate amount of sample is collected from both nostrils.
4. Withdraw the swab from the nasal cavity. The specimen is now ready for preparation using the extraction buffer tubes.

**Allow the test and extraction buffer to reach room temperature (15-30 °C) prior to testing.**

1. Use an extraction buffer tube for each specimen to be tested and label each tube appropriately.
  2. Unscrew the dropper cap from the extraction buffer tube without squeezing.
  3. Insert the swab into the tube and swirl it for 30 seconds. Then rotate the swab at least 5 times while **squeezing the sides of the tube**. Take care to avoid splashing contents out of the tube.
  4. Remove the swab **while squeezing the sides of the tube** to extract the liquid from the swab.
  5. Screw the dropper cap firmly onto the extraction buffer tube containing the sample. Mix thoroughly by swirling or flicking the bottom of the tube.
  6. Remove the test cassette from the foil pouch and use it as soon as possible.
  7. Place the test cassette on a flat and clean surface.
  8. Add the processed specimen to the sample wells of the test cassette.
    - a. Unscrew the small cap from the dropper tip.
    - b. Invert the extraction buffer tube with the dropper tip pointing downwards and hold it vertically.
    - c. Gently squeeze the tube, dispensing 4 drops of the processed specimen **into each sample well**.
- Please note:** This cassette has 2 sample wells, and both sample wells need to receive 4 drops of the processed specimen.
9. Wait for the colored line(s) to appear. The results should be read at 15 minutes. **Do not read the result after 30 minutes.**

