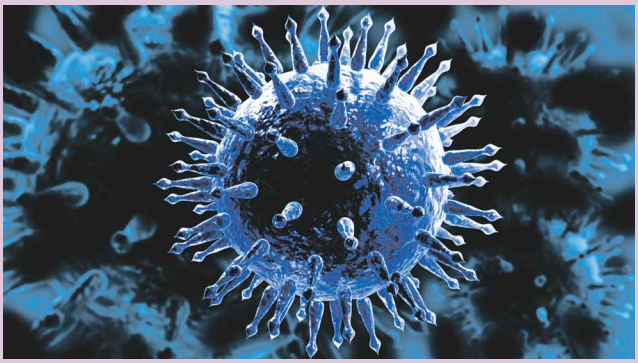
MICROGEN
BIOPRODUCTS

PathFlow™

# INFLUENZA A AND B

**The PathFlow™ Flu A/B Combi is a rapid chromatographic immunoassay for the qualitative detection of influenza A and B antigens in nasopharyngeal swab, throat swab or nasal aspirate specimens.**



## What is the Test?

- The PathFlow™ Flu A/B Combi is a qualitative, lateral flow immunoassay for the detection of Influenza A and Influenza B nucleoproteins in nasopharyngeal swab, throat swab or nasal aspirate specimens; including (but not exclusive to) subtypes A/H1N1, A/H3N2 and A/H5N1.

## What is the Disease?

- Influenza (commonly known as 'flu') is a highly contagious, acute viral infection of the respiratory tract. It is a communicable disease easily transmitted through the coughing and sneezing of aerosolized droplets containing live virus.
- Seasonal influenza outbreaks occur each year during the autumn and winter months. Type A viruses are typically more prevalent then type B and are associated with the most serious epidemics; whilst type B infections are usually milder – type C is also only usually associated with mild symptoms or asymptomatic carriage.

## Symptoms

- Symptoms can include; sudden fever, rhinitis, headache, fatigue, sore throat, cough and myalgia. Usually resolving within 2 to 7 days, though a cough may persist for several weeks.
- Although usually self-limiting, Influenza can exacerbate underlying medical conditions and sometimes present life-threatening complications, such as; bronchitis, primary viral pneumonia/secondary bacterial pneumonia, or in children – otitis media (middle ear infection).

## Mortality/Morbidity – Clinical Implications

- The risk of serious illness from influenza is higher amongst young children, elderly and those whom suffer from underlying health conditions or immunosuppression.

- **Complete system, no additional reagents required.**
- **Simple and easy to use.**
- **Rapid result offered. Available after 15 minutes or within 15-20 minutes.**
- **Can be used for nasopharyngeal swab samples, throat swab samples and nasal aspirate.**
- **In-built procedural control.**
- **Early diagnosis of influenza A/B is paramount in a clinical environment; enabling for the ability to provide greater levels of patient care and management.**

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## Why use PathFlow™

- The gold standard of laboratory diagnosis is 14-day cell culture; however, results are often obtained too late in the clinical course for effective patient intervention.
- The PathFlow™ Flu A/B Combi qualitatively detects presence of Influenza A and/or Influenza B antigen in nasopharyngeal/throat swab or nasal aspirate specimens.

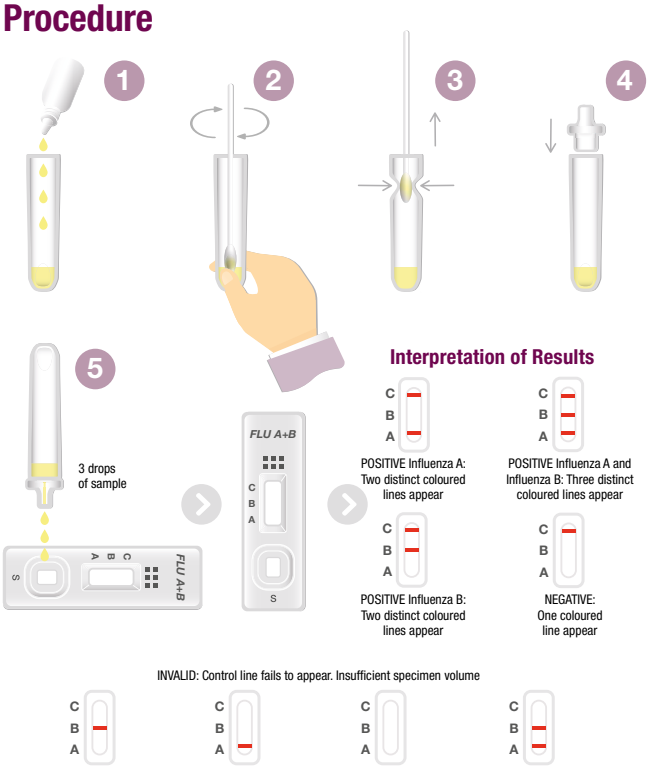
## Performance – Tested vs. RT-PCR

| | |
|---|---|
| **Nasopharyngeal Swab Specimen** | |
| **Type A** | Sensitivity – 99.0% |
| | Specificity – 98.9% |
| | Accuracy – 98.5% |
| **Type B** | Sensitivity – 97.7% |
| | Specificity – 99.0% |
| | Accuracy – 98.6% |
| **Throat Swab Specimen** | |
| **Type A** | Sensitivity – 95.1% |
| | Specificity – 99.3% |
| | Accuracy – 98.1% |
| **Type B** | Sensitivity – 94.2% |
| | Specificity – 99.4% |
| | Accuracy – 97.8% |
| **Nasal Aspirate Specimen** | |
| **Type A** | Sensitivity – 100% |
| | Specificity – 99.2% |
| | Accuracy – 99.3% |
| **Type B** | Sensitivity – 97.9% |
| | Specificity – 99.4% |
| | Accuracy – 98.8% |

## Ordering Information

| |
|---|
| Code – M591CE |
| Description – PathFlow™ Influenza A/B Combi |
| Size – 25 Test Kits |
| Storage – 2°C-30°C |

## Procedure




**Step 1.** Remove the test cassette from the sealed foil pouch and use it as soon as possible. Place the extraction tube in the workstation – hold the reagent bottle upside down and squeeze the bottle to let the solution drop into the extraction tube, adding 10 drops.

**Step 2.** Place the swab specimen in the extraction tube, rotate the swab for approximately 10 seconds.

**Step 3.** Remove the swab while squeezing the swab head against the inside of the extraction tube.

**Step 4.** Fit the dropper tip on top of the extraction tube.

**Step 5.** Add three drops of the solution to the sample well and start the timer. Read the result at 15 minutes and do not interpret after 20 minutes.

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*PathFlow™ - Leading The Way to a Better Diagnosis*

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