

Respiratory Viral Panel

Test ID **RV00** Respiratory Viral Panel (RVP)

Clinical Utility The Respiratory Viral Panel is a comprehensive assay for the detection of a broad range of viruses and subtypes representing the majority of circulating respiratory disease-causing pathogens of particular importance to children, elderly, and immunocompromised patients. Detection of these pathogens will lead to more efficient management of patients with respiratory infections, play a key role in surveillance, and aid in limiting the spread of respiratory viruses through infection control practices.

Procedure Viral nucleic acid is extracted from the specimen, which undergoes reverse transcription to generate complementary DNA (cDNA). The target cDNA is amplified using polymerase chain reaction (PCR), then analyzed with Luminex® xTag™ technology to detect the presence or absence of each virus in the panel. The Respiratory Viral Panel (RVP) has been cleared by the FDA for *in vitro* diagnostic use.

Specimens *** Nasopharyngeal swab (NP swab):** sterile swab placed in 1-2 ml sterile saline or viral transport media; ship ambient.

**** Nasopharyngeal aspirate (NP aspirate), tracheal aspirate, BAL:**
2 ml; submitted in a sterile, screw-top tube; ship ambient.

Specificity **Detects 12 Respiratory viral targets:** respiratory syncytial virus (RSV) A, respiratory syncytial virus (RSV) B, influenza A, influenza A subtype H1, influenza A subtype H3, influenza B, parainfluenza 1, parainfluenza 2, parainfluenza 3, human metapneumovirus (hMPV), rhinovirus, and adenovirus

Assay Range Qualitative results (Positive/Not Detected) for: RSV A, RSV B, influenza A, influenza A subtype H1, influenza A subtype H3, influenza B, parainfluenza 1, parainfluenza 2, parainfluenza 3, hMPV, rhinovirus, and adenovirus

Turnaround Time Within 24 hours of receiving specimen

* NP swab has been cleared by the FDA for use in the RVP assay.

**In-house verification performed to establish as suitable specimen types.

Information derived from Respiratory Viral Panel Package Insert (Luminex Corporation).

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