

Respiratory Viral Panel (RVP)

Test code: RVP2

Use: The eSensor[®] Respiratory Viral Panel (RVP) is a qualitative nucleic acid multiplex in vitro diagnostic test for the simultaneous detection and identification of multiple respiratory viral nucleic acids in nasopharyngeal swabs (NPS) obtained from individuals exhibiting signs and symptoms of respiratory infection. The following virus types and subtypes are identified using RVP: Influenza A, Influenza A subtype H1, Influenza A subtype H3, Influenza A 2009 H1N1, Influenza B, Respiratory Syncytial Virus subtype A, Respiratory Syncytial Virus subtype B, Parainfluenza 1, Parainfluenza 2, Parainfluenza 3, Human metapneumovirus, Rhinovirus, Adenovirus B/E, and Adenovirus C.

Clinical Significance:

Respiratory viruses cause acute local and systemic illnesses that range in severity, with the potential to cause severe disease especially in the young and elderly or immunocompromised. Respiratory viruses are highly prevalent and are the most common cause of acute illness in the United States.

Methodology: The eSensor[®] RVP is based on multiplex reverse transcription (RT)-PCR amplification of extracted nucleic acids followed by detection of amplified products on the eSensor XT-8 instrument. The test is able to detect 14 respiratory viral targets and an internal control.

Normal Range: Negative for all analytes tested.

Interpretative data:

Negative: Indicates that no viral nucleic acid was detected.

Positive: Indicates that viral nucleic acid was detected in levels above the assay threshold.

Assay availability: RVP assay is batched M-F, specific days dependant on volume of tests.

Specimen required:

Respiratory samples are the specimen of choice for the eSensor[®] RVP assay. Nasopharyngeal swabs in Universal Transport Media (M4RT) are preferred; however, nasal washes and other forms of respiratory samples may be used. Standard precautions should be taken with regard to sample collection, handling and storage prior to extraction.

Volume: Samples should be collected using a Dacron tipped swab, placed in 3-4 mls of viral transport media. If nasal wash is performed, recommend 2-3 mls sent to lab in a sterile container.

Storage: Send to the laboratory at ambient temperature. Samples may be stored at 2 - 6°C for up to 7 days prior to extraction.

Causes for Rejection: Samples received in the lab without proper identification will be rejected. Leaking specimens or containers will be rejected.

Laboratory Contact: For further information, please call the Molecular Diagnostics Lab at 501-526-6439.