

Respiratory Viral Panel (RVP)

Test Code: RVP1

Use: The Luminex xTAG[®] Respiratory Viral panel is a qualitative nucleic acid multiplex test intended for the simultaneous detection and identification of multiple respiratory virus nuclei acids in nasopharyngeal swabs from individuals suspected of having respiratory tract infections. The following virus types and subtypes are identified using RVP: Influenza A, Influenza A subtype H1, Influenza A subtype H3, Influenza B, Respiratory Syncytial Virus subtype A, Respiratory Syncytial Virus subtype B, Parainfluenza 1, Parainfluenza 2, Parainfluenza 3, Human Metapneumovirus, Rhinovirus, and Adenovirus.

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, elderly or immunocompromised.

Methodology: The RVP assay incorporates multiplex Reverse Transcription Polymerase Chain Reaction and multiplex Target Specific Primer Extension with Luminex Molecular diagnostic's proprietary Universal Tag sorting system on the Luminex xMAP platform.

Normal Range: Negative for all analytes tested.

Interpretative Data:

Negative: Indicates that no viral nuclei acid was detected.

Indeterminate: Indicates that a small amount of viral nucleic acid was detected, but in quantities below the threshold for calling positive.

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

Volume: Nasopharyngeal samples should be collected using a Dacron tipped swab placed in a vial containing 3 – 4 ml of viral transport media. If nasal wash is performed, recommend 2-3 ml sent to the lab in a sterile container.

Storage: Send to the laboratory at room temperate. Samples may be stored at 2 - 6C for up to 7 days prior to extractions.

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 Laboratory at (501) 526-6439.