



RVP

Respiratory Viral Panel by RT-PCR

GA Test Code 1201
Method Reverse Transcription - Polymerase Chain Reaction (RT-PCR)
FDA-approved Luminex® xTAG™ technology

12 Viral Targets	Sensitivity*	Specificity*
Adenovirus	78.3%	100%
Human Metapneumovirus (hMPV)	96%	98.8%
Influenza A (non-specific)	96.4%	95.9%
- Influenza A/H1N1**	97.8%	100%
Influenza A, subtype H1	100%	100%
Influenza A, subtype H3	91.7%	98.7%
Influenza B	91.5%	96.7%
Parainfluenza 1	100%	99.8%
Parainfluenza 2	100%	99.8%
Parainfluenza 3	84.2%	99.6%
Respiratory Syncytial Virus (RSV) A	100%	98.4%
Respiratory Syncytial Virus (RSV) B	100%	97.4%
Rhinovirus	100%	91.3%

*Source of data: Luminex package insert for xTAG RVP kit reagents. Data based on testing of 544 prospectively collected specimens at four clinical labs during the 05-06 flu season in a trial comparing xTAG with DFA and/or culture.
** FDA cleared labeling updates for xTAG RVP package insert to indicate likelihood that an unsubtypeable Influenza A result is indicative of novel Influenza A/H1N1. Data based on testing of 6090 samples during 2009 Influenza A/H1N1 outbreak in NYC area.

Specimens **Upper Respiratory Swab (e.g. nasopharyngeal):** Swab specimens should be collected only on swabs with a synthetic tip (such as polyester or Dacron®) and an aluminum or plastic shaft. Do not use calcium alginate or wood-shafted swabs. Place the swab in 1-2 ml sterile saline or viral transport medium in a sterile leak-proof container. Ship ambient within 96 hours of collection.
Bronchoalveolar Lavages, Respiratory Washes: 3.0 mL (1.0 mL), sterile leak-proof container. Ship ambient within 96 hours of collection.
Other Samples: Please contact GA for questions about other specimens.

Causes for Rejection Calcium alginate or wood-shafted swab; time and/or temperature instructions not followed as specified; quantity not sufficient (QNS) for analysis.

Reference Range Not Detected

Turnaround Time MWF same day (additional days TBD during cold and flu season)

CPT Codes 87502, 87503 (x2), 87798 (x8)

Description
This FDA-approved test uses a multiplex platform to simultaneously detect and identify nucleic acids of 12 infectious respiratory disease viruses from a single sample.

Clinical Utility
A “Detected” result indicates infection by the corresponding virus, but does not rule out other infections, and the virus detected may not be the specific cause of the disease or patient symptoms. The results of the RVP should be coupled with clinical presentation and other laboratory results to help determine appropriate patient management.

Genetic Assays, Inc.