Respiratory Pathogen Panel TEM-PCR™

Test Code: 220098P

This assay detects respiratory Coronaviruses only. This assay does NOT detect if the patient is positive for the novel 2019 Coronavirus out of China.

Please see [Coronavirus (COVID-19) SARS-CoV-2 Test](#)

Tests in this Panel

Adenovirus
Enterovirus/Rhinovirus
Human bocavirus
Human coronavirus (4 types)
Human metapneumovirus
Influenza A- Human influenza
Influenza A- H1N1-09
Influenza B
Parainfluenza types 1, 2, 3, 4
Respiratory Syncytial Virus
Acinetobacter baumannii
Bordetella pertussis
Chlamydia pneumoniae
Haemophilus influenzae
Haemophilus influenzae (Type B)
Klebsiella pneumoniae
Legionella pneumoniae
Moraxella catarrhalis
MRSA - Meth. resistant S. aureus
Panton-Valentine leukocidin gene
Mycoplasma pneumoniae
Neisseria meningitidis
Pseudomonas aeruginosa
Staphylococcus aureus
Streptococcus pneumoniae
Streptococcus pyogenes (Group A)

Clinical and Procedure

Clinical Utility

The Respiratory Pathogen Panel detects 26 pathogens (viral and bacterial) using TEM-PCR™ (Target Enriched Multiplex Polymerase Chain Reaction) technology - a multiplex PCR amplification technology to detect multiple targets simultaneously. Multiple target panel testing helps identify co-infections, provides physicians with valuable diagnostic insight into unknown causes of infection, reduces unnecessary antibiotic administration and hospital acquired infections, allows for molecular testing in patients with concurrent antibiotic use, and more targeted therapy for better patient management and overall reduced hospital costs.
About Respiratory Pathogen Panel

This assay detects the majority of respiratory disease-causing viral and bacterial pathogens of critical importance to patients, including children, elderly, and the immunocompromised. An etiologic diagnosis of respiratory disease will lead to more effective and efficient management of patients, and play a key role in supporting Healthcare Reform and Antimicrobial Stewardship — helping to facilitate the CDC’s efforts to cross-communicate antibiotic-resistant bacteria data across the U.S. — to ultimately decrease the spread of infections and combat the increasingly devastating effects of “superbugs.”

Procedure

Target Enriched Multiplex PCR™ diagnostic panel testing consists of three major steps: extraction, amplification and detection. The key to making TEM-PCR™ occur successfully lies in these primer mixes and how they allow the enrichment of multiple targets. The use of target-specific nested primers at low concentrations at the initial enrichment step allows high specificity of multiplexing amplification. After initial target enrichment is complete, Super Primers within the reaction carry out the exponential amplification and produce tagged PCR products for subsequent detection. The detection phase of the process is accomplished by measuring the fluorescence of special tags that are bound to the target sequences, which have been attached during amplification. This test has not been cleared or approved for diagnostic use by the U.S. Food and Drug Administration.

Specificity

The Adenovirus assay detects Serotypes B and E. Detection of Serotype C may be limited. If Adenovirus infection is suspected and a Not Detected result is returned, the sample should be re-tested for Adenovirus using an independent method (e.g. Viracor Eurofins Adenovirus Quantitative Real-time PCR test).

Turnaround Time

Same day (within 8 - 12 hours from receipt of specimen), Monday through Saturday.

Specimen Information

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Order Code</th>
<th>CPT Code</th>
<th>NY Approved</th>
<th>Volume</th>
<th>Assay Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAL</td>
<td>220098</td>
<td>87798 (x9), 87541 (x1), 87486 (x1), 87581 (x1), 87632 (x1), 87641 (x1), 87651 (x1)</td>
<td>No</td>
<td>2 mL (min. 0.5 mL)</td>
<td>Positive/Not Detected</td>
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<td>No</td>
<td>2 mL (min. 0.5 mL)</td>
<td>Positive/Not Detected</td>
</tr>
</tbody>
</table>

Special Instructions
- Collect in a sterile, screw top tube.
- Can be shipped at ambient or frozen temperature Monday through Friday.
- Specimens shipped at ambient temperature must be received within 7 days of collection.
<table>
<thead>
<tr>
<th>Specimen Type</th>
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<td>Positive/Not Detected</td>
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Special Instructions:
- Place sterile swab placed in 2 mL sterile saline, M4, or viral transport media in a sterile, screw top tube.
- Do not use calcium alginate swab or wood shafted swab.
- Can be shipped at ambient or frozen temperature Monday through Friday.
- Specimens shipped at ambient temperature must be received within 7 days of collection.
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Shipping
Ship Monday through Friday. Friday shipments must be labeled for Saturday delivery. All specimens must be labeled with patient's name and collection date. A Viracor Eurofins test requisition form must accompany each specimen. Multiple tests can be run on one specimen. Ship specimens FedEx Priority Overnight® to: Viracor Eurofins, 1001 NW Technology Dr, Lee's Summit, MO 64086.

Causes for Rejection
Wood shafted swab, calcium alginate swab, specimens received in trap containers, specimens beyond their acceptable length of time from collection as listed in the specimen handling, or specimen types other than those listed.

Disclaimer
Specimens are approved for testing in New York only when indicated in the Specimen Information field above. The CPT codes provided are based on Viracor Eurofins' interpretation of the American Medical Association's Current Procedural Terminology (CPT) codes and are provided for informational purposes only. CPT coding is the sole responsibility of the billing party. Questions regarding coding should be addressed to your local Medicare carrier. Viracor Eurofins assumes no responsibility for billing errors due to reliance on the CPT codes illustrated in this material.