

## Respiratory Infection Panel

Retrogen is a CLIA & CAP certified laboratory with over 20-years experience with molecular testing. Experienced and helpful laboratory staff are responsible for handling your clinical samples and are available to answer questions regarding your test status. Our Respiratory Infection Panel provides the healthcare professional with fast and accurate results that assist in guiding appropriate treatment, all with one simple sample, easy to use collection process and shipping procedure. Our team of experienced scientist provides over 20+ years of laboratory experience & expertise to provide you with reliable and accurate results within 48 hours.



Acute respiratory infection is an infection that may interfere with normal breathing. It can affect just your upper respiratory system, which starts at your sinuses and ends at your vocal chords. It can also affect your lower respiratory system, which starts at your vocal chords and ends at your lungs. It is particularly dangerous for children, older adults, and people with immune system disorders. Respiratory infections are the single most important cause of death in childhood, primarily due to bacterial and viral pathogens. Unfortunately, clinical features and current laboratory methods do not readily identify the etiologic agent.

### Symptoms

- Runny nose
- Nasal congestion
- Sneezing
- Cough
- Difficulty breathing
- Fever
- Fatigue
- Headache
- Pain during swallowing
- Wheezing

### Traditional Testing Challenges

- Time consuming
- Subjective
- Ambiguous
- labor intensive
- Clinically variable results

### Retrogen's Test Benefits

Our molecular testing methods offer a better and advanced approach than culture and antibody-based approaches. Studies have shown that molecular tests can significantly improve patient outcomes and decrease overall costs. The LuminexNxTAG® Respiratory Pathogen Panel is a next generation, closed tube, molecular DNA assay designed to simultaneously detect 21 viral and bacterial respiratory pathogens.

- Higher Sensitivity & Specificity
- Small amount of input DNA required
- All assays are pre-designed and validated
- Easy workflow with rapid, accurate throughput
- Rapid Turn Around Time with results within 24-hours
- Multiple pathogens can be tested with one swab

### Pathogens Tested

#### 18 Viruses Tested

Influenza A	Coronavirus HKU1
Influenza A H1	Coronavirus 229E
Influenza A H3	Respiratory SyncytialVirus A
Influenza B	Respiratory Syncytial Virus B
Parainfluenza virus 1	Rhinovirus/Enterovirus
Parainfluenza virus 2	Coronavirus OC43
Parainfluenza virus 3	Adenovirus
Parainfluenza virus 4	Human Metapneumovirus
Coronavirus NL63	Human Bocavirus

#### 2 Bacteria Tested

Chlamydophila pneumonia	Mycoplasma pneumonia
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### Ordering Information

Test ID	#7002 Respiratory Infection Panel
Test Requisition Form	Complete all sections and include ICD-10 and health insurance information
Pick-up	FedEx for Overnight pickup or Contact Retrogen 1-800-738-7643 for courier transport (available ONLY in Southern California)

### Specimen Collection & Handling Requirements

Collect	Copan Universal Transport Medium
Handling	Nasopharyngeal swab in 3 mL of M4 or M4RT viral transport medium
Storage & Transport	Refrigerated (2-8° C) or on wet ice to the laboratory within 48 hours of collection
Rejection Criteria	Specimen sources other than noted in collection instructions. Specimens received after 48-hours
Stability	Ambient: 4 hours ; Refrigerated: 3 days; Frozen (-70°C) 30 days

### Test Information

Performed	7 days a week, 6:00 a.m. to 12:00 a.m.
Reported	24-48 hours
Method	LuminexMultiplexed Nucleic Acid Amplification Test
CPT Codes	87633