

Severe Acute Respiratory Syndrome Coronavirus 2 (SARS CoV-2), Influenza Virus Type A and Type B RNA, and Respiratory Syncytial Virus (RSV) Molecular Detection, PCR, Varies

Test ID: SCOF4

Useful for:

Simultaneous detection and differentiation of SARS-CoV-2 (cause of COVID-19), influenza A virus, influenza B virus, and respiratory syncytial virus (RSV) in upper or lower respiratory tract specimens from individuals with a flu-like illness

Methods:

Multiplex Reverse Transcriptase, Real-Time Polymerase Chain Reaction (RT-qPCR)

Reference Values:

Undetected

Specimen Requirements:

Preferred:

- | | |
|---------------------------------|---|
| Specimen Type: | Nasopharyngeal swab |
| Container/Tube: | Sterile container with transport media |
| Specimen Volume: | Entire specimen with a minimum of 1.5 mL (maximum 3 mL) of transport media. |
| Collection Instructions: | <ol style="list-style-type: none">1. Collect specimen by swabbing back and forth over mucosa surface to maximize recovery of cells.2. Swab must be placed into viral transport media (eg, M4-RT, M4 or M5), saline, or phosphate buffered saline (PBS). Media should not contain guanidine thiocyanate (GTC). |

- | | |
|--------------------------------|---|
| Specimen Type: | Bronchoalveolar lavage fluid |
| Container/Tube: | Sterile Container |
| Specimen Volume: | 0.6 mL |
| Additional Information: | Do not aliquot into viral transport media. |

Acceptable:

- Specimen Type:** Oropharyngeal (throat) swab, nasal mid-turbinate, or nares/nasal swab
- Supplies:**
- Culturette (BBL Culture Swab) (T092)
 - Mid Turbinate (MT) Swab (FLOQSwab/COPAN) (T864)
 - Swab, Sterile Polyester (T507)
- Container/Tube:** Sterile container with transport media
- Specimen Volume:** Entire specimen with a minimum of 1.5 mL (maximum 3 mL) of transport media.
- Preferred:** BBL Culture Swab, COPAN Mid-turbinate Swab
- Acceptable:** Dacron-tipped swab with plastic handle
- Collection Instructions:** Swab must be placed into viral transport media (eg, M4-RT, M4, or M5), saline, or PBS. **Media should not contain guanidine thiocyanate (GTC).**

- Specimen Type:** Bronchial washings, endotracheal aspirate, sputum
- Container/Tube:** Sterile container
- Specimen Volume:** 0.6 mL
- Additional Information:** **Do not aliquot into viral transport media.**

Minimum Volume: Upper respiratory tract swab: See Specimen Required; lower respiratory specimens: 0.3 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Varies	Frozen (preferred)	14 days
	Refrigerated	72 hours

Cautions:

The sensitivity of the assay is dependent on the quality of the specimen submitted. A nasopharyngeal swab and bronchoalveolar lavage fluid are the preferred specimen types for optimal detection of SARS-CoV-2, influenza A/B, and respiratory syncytial virus (RSV) RNA in the upper and lower respiratory tracts, respectively.

The test is specific for detection and differentiation of SARS-CoV-2, influenza A virus, influenza B virus, and RSV, but positive results do not exclude the possibility of infection with other respiratory viruses. This assay detects influenza A viral RNA but does not distinguish among the different viral subtypes, such as H5N1, H7N9. Influenza C virus is not detected by this assay.

Undetected (negative) results do not preclude infection with SARS-CoV-2, influenza A virus, influenza B virus, or RSV and should not be used as the sole basis for treatment or other patient management decisions.

CPT Code:

87637

Day(s) Performed: Monday through Sunday

Report Available: Same day/1 to 2 days

Questions

Contact James Conn, Laboratory Resource Coordinator at 800-533-1710.