

FACT SHEET

Respiratory PCR Panel (RP)

Test 6310

CPT code: 87633

Test Description:

The County of San Luis Obispo Public Health Laboratory (SLOPHL) performs a molecular amplification test for detection of a broad array of respiratory viruses and bacteria by a multiplex nested real-time Polymerase Chain Reaction (PCR) method with duplicate microarray targets.

PCR is most rapid and sensitive detection method, allowing specific identification of the infective agents and allowing the detection of multiple/co-infecting viruses. Rapid diagnosis allows for the use of antiviral drugs and proper antibiotic stewardship, decreasing hospital stay and charges. Identification of viruses causing outbreaks in closed settings allows the institution of the correct interventions and early control of transmission.

Agents Detected by the Respiratory PCR Panel

Viruses	Viruses	Bacteria
<ul style="list-style-type: none">AdenovirusCoronavirus SARS Cov2Coronavirus 229ECoronavirus HKU1Coronavirus NL63Coronavirus OC43Human Metapneumovirus (hMPV)Human Rhinovirus/EnterovirusRespiratory Syncytial Virus (RSV)	<ul style="list-style-type: none">Influenza Virus A* *Includes the current circulating seasonal subtypes H1 and H3Influenza BParainfluenza 1Parainfluenza 2Parainfluenza 3Parainfluenza 4	<ul style="list-style-type: none">Chlamydomphila pneumoniaeBordetella pertussisBordetella parapertussisMycoplasma pneumoniae

SLOPHL Statistics

From January through August 2017, SLOPHL detected respiratory infection agents in 72 of 119 (**60.5%**) specimens tested using the RP. In addition, the specimens that tested positive for influenza were confirmed by traditional PCR methods. Detected agents include Adenovirus (7), Human Rhinovirus/Enterovirus (11), Respiratory Syncytial Virus (20) and Influenza virus A and B (17) as well as others.

Sensitivity

Sensitivity for detection varies according to the agent detected from 87.4% to 100%

Specificity

Specificity for all viruses varies from 86.8% to 100%.

Specimens:

Collect a nasopharyngeal swab and immediately place in viral transport media (VTM). M4 is preferred, however other VTM is acceptable. If storage is required, specimens in VTM can be held at room temperature (18-30°C) for up to 4 hours, 3 days at refrigerator temperature (2-8°), or up to 30 days at freezer temperature (-15°C).



County of San Luis Obispo Public Health Laboratory

2191 Johnson Ave., San Luis Obispo, CA 93401

Phone: (805) 781-5507 Fax: (805) 781-1023

www.sloPublicHealth.org/lab

Laboratory Hours: Monday – Friday, 8:00am – 5:00pm