

# FACT SHEET

## Pneumonia PCR Panel (RP)

Test 6620

### 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 that cause pneumonia 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. The PN panel also provide a semi-quantitative measure of the numbers of certain bacteria present in the specimen

### Agents Detected by the Pneumonia PCR Panel

<b>Bacteria reported with numeric values of 10<sup>4</sup>, 10<sup>5</sup>, 10<sup>6</sup>, or 10<sup>7</sup></b> <i>Acinetobacter calcoaceticus-baumannii</i> complex <i>Klebsiella oxytoca</i> <i>Serratia marcescens</i> <i>Enterobacter cloacae</i> complex <i>Klebsiella pneumoniae</i> group <i>Staphylococcus aureus</i> <i>Escherichia coli</i> <i>Moraxella catarrhalis</i> <i>Streptococcus agalactiae</i> <i>Haemophilus influenzae</i> <i>Proteus</i> spp. <i>Streptococcus pneumoniae</i> <i>Klebsiella aerogenes</i> <i>Pseudomonas aeruginosa</i> <i>Streptococcus pyogenes</i> <b>Atypical Bacteria</b> <i>Chlamydia pneumoniae</i> <i>Legionella pneumophila</i> <i>Mycoplasma pneumoniae</i>	<b>Viruses</b> <ul style="list-style-type: none"><li>• Adenovirus</li><li>• Coronavirus</li><li>• Human Metapneumovirus (hMPV)</li><li>• Human Rhinovirus/Enterovirus</li><li>• Respiratory Syncytial Virus (RSV)</li><li>• Influenza Virus A*</li><li><b>*Includes the current circulating seasonal subtypes H1 and H3</b></li><li>• Influenza B</li><li>• Parainfluenza virus</li></ul> <b>Antimicrobial Resistance Genes</b> CTX-M NDM <i>mecA/C</i> and MREJ IMP OXA-48-like KPC VIM
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### Sensitivity

Sensitivity for detection varies according to the target detected from 83.3% to 100%

### Specificity

Specificity for all targets varies from 91.2% to 100%.

### Specimens:

Collect sputum or bronchoalveolar lavage. If storage is required, specimens can be held for 1 days at refrigerator temperature (2-8°), or up to 30 days at freezer temperature (-15°C).

**CPT:** 87631,87541,87581,8748, 87798 x (13), 87150 x (7)



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