**Lab Dept:** Microbiology/Virology  
**Test Name:** MYCOPLASMA PNEUMONIAE DNA PCR

---

**General Information**

**Lab Order Codes:** MPPC  
**Synonyms:** *M. pneumoniae* PCR; PCR for *M. pneumoniae*; Mycoplasma pneumoniae DNA, Qualitative Real-time PCR  
**CPT Codes:** 87581 - Infectious agent detection by nucleic acid (DNA or RNA); *Mycoplasma pneumoniae*, amplified probe technique  
**Test Includes:** Polymerase Chain Reaction (PCR), Real-time

---

**Logistics**

**Lab Testing Sections:** Microbiology - Sendouts  
**Referred to:** Mayo Medical Laboratories (MML Test: MPRP)  
**Phone Numbers:** MIN Lab: 612-813-5866  
STP Lab: 651-220-6555  
**Test Availability:** Daily, 24 hours  
**Turnaround Time:** 3 - 4 days  
**Special Instructions:** Specimen site and date/time of collection are required for specimen processing.

---

**Specimen**

**Specimen Type:**  
- Throat, nasal and NP swabs- swab preferred) or place swab in M4-RT, M5 or UTM. ESwabs also acceptable.  
- Bronchial alveolar lavage (BAL) or bronch washing in sterile container (preferred) or specimen in M4-RT, M5 or UTM  
- Sputum/tracheal secretions in sterile container (preferred) or specimen in M4-RT, M5 or UTM  
- Fluids: CSF, pleural or pericardial in sterile container

**Container:** Refer to Specimen Type above.  
For M4-RT transport media contact the lab (Supply T605 ordered from Mayo)
**Draw Volume:**
- Bronchial alveolar lavage (BAL) or bronch: 1 mL (Minimum: 0.5 mL)
- CSF, pleural or pericardial: 0.5 mL
- Other specimens: 1 swab

**Collection:**

**Bronchoscopy:**
1. Specimen obtained by physician through the biopsy channel of the bronchoscope.
2. Transfer specimen into a luke tube/sterile container.

**Sputum (expectorate):**
1. Collect early morning specimen in a sterile container under the direct supervision of a nurse or a physician.
2. Have patient rinse or gargle with water to remove superficial flora.
3. Instruct patient to cough deeply to produce a lower respiratory specimen.
4. Examine the specimen to make sure it contains this mucus. Do not submit saliva.

**NP Swabs:**
1. Carefully insert a minitip swab into the posterior nasopharynx via the nose.
2. Rotate the swab slowly for 5 seconds to absorb secretions, keeping the swab near the floor and the septum of the nose.
3. Remove the swab and place swab in transport media.

**Throat Swab:**
1. Depress tongue with tongue depressor.
2. Sample the posterior pharynx, tonsils, and inflamed areas with a sterile swab.
3. Place swab in transport medium.

**Fluids:**
1. Collect aseptically.
2. Place in sterile container.

**Transport/Storage:**
Transport to the Microbiology Laboratory immediately at room temperature. Store and ship at refrigerated temperatures.

**Sample Rejection:**
Specimen not submitted in appropriate transport container; improperly labeled specimen; insufficient volume; external contamination. If an unacceptable specimen is received, the physician or nursing station will be notified and another specimen will be requested before the specimen is discarded.

---

**Interpretive**
**Reference Range:** Negative

A positive result indicates the presence of Mycoplasma pneumonia. A negative result does not rule out the presence of Mycoplasma pneumonia and may be due to the presence of inhibitors within the same matrix, or the presence of organisms at numbers below the limits of detection of the assay.

**Methodology:** Rapid Polymerase Chain Reaction (PCR) using Light Cycler and Fluorescent Resonance Transfer (FRET)

**References:**
- Mayo Reference Laboratories Web Page October 2018

**Updates:**
- 8/12/2004: Effective 8/10/2004, this test was moved from Lab Corp (Viromed) to Mayo Medical Laboratories forward to Focus Technologies, Inc.
- 2/23/2007: Test minimum volume previously listed as 0.5 mL. Shipping requirement previously listed as frozen.
- 8/17/2009: Pleural fluid and nasal aspirates are no longer acceptable specimens.
- 3/12/10: specified M4 VTM (blue cap) or M5 universal transport media as acceptable transport for swabs. (M5 verified as acceptable by Focus labs customer service).
- 11/15/2013: Testing moved from Focus to internal at MML.
- 6/2/2015: Added nasal washing as acceptable specimen type.
- 10/04/2018: Removed Nasal Washings as acceptable specimen.