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**Lab Dept:** Serology

**Test Name:** CHLAMYDIA IGM AND IGG PANEL,  
IMMUNOFLUORESCENCE, SERUM

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***General Information***

**Lab Order Codes:** CHLAP

**Synonyms:** Chlamydia IFA; Chlamydia differentiation antibody panel; *Chlamydia pneumoniae* and *Chlamydia psittaci* serology

**CPT Codes:** 86631 x2 – Antibody; Chlamydia  
86632 x2 – Antibody; Chlamydia, IgM

**Test Includes:** Semiquantitative titers for IgM and IgG antibodies to *Chlamydia pneumoniae* and *Chlamydia psittaci*

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***Logistics***

**Test indications:** Aids in the clinical diagnosis of *Chlamydia pneumoniae* or *Chlamydia psittaci* infection

**Lab Testing Sections:** Serology - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test: CHLAP)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 – 4 days, test set up Monday – Friday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** SST (Gold, marble or red) tube

**Draw Volume:** 1.8 mL (minimum: 0.9 mL) blood

**Processed Volume:** 0.6 mL (minimum: 0.3 mL) serum

<b>Collection:</b>	Routine blood collection
<b>Special Processing:</b>	Lab Staff: Centrifuge specimen, separate serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.  Specimen stable refrigerated (preferred) or frozen for 30 days.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Gross hemolysis; heat-inactivated specimen; gross lipemia; gross icterus; mislabeled or unlabeled specimens.

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***Interpretive***

**Reference Range:**

*Chlamydia pneumoniae*

IgM: <1:10

IgG: <1:64

*Chlamydia psittaci*

IgM: <1:10

IgG: <1:64

**INTERPRETATION:**

**IgM**

*Chlamydia pneumoniae* and *Chlamydia psittaci*

> or =1:10

IgM endpoint titers of 1:10 or more are considered presumptive evidence of infection.

<1:10

IgM endpoint titers below 1:10 suggest that the patient does not have a current infection. These antibody levels may be found in patients with either no history of chlamydial infection or those with past infection whose antibody levels have dropped below detectable levels.

**IgG:**

*C pneumoniae*

> or =1:512

IgG endpoint titers of 1:512 or more are considered presumptive evidence of current infection.

> or =1:64 and <1:512

A single specimen endpoint titer of 1:64 to 1:512 should be considered evidence of infection at an undetermined time. A second specimen collected 10 to 21 days after the original collection should be tested in parallel with the first. If the second specimen exhibits a titer 1:512 or more or a 4-fold increase over that of the initial specimen, current (acute) infection is indicated. Unchanging titers from 1:64 to 1:512 suggest past infection.

<1:64

IgG endpoint titers below 1:64 suggest that the patient does not have a current infection. These antibody levels may be found in patients with either no history of chlamydial infection or those with past infection whose antibody levels have dropped below detectable levels.

*C pneumoniae* antibody is detectable in 25% to 45% of adults tested.

*C psittaci*

> or =1:64

IgG endpoint titers of 1:64 or more are considered presumptive evidence of current infection.

<1:64

IgG endpoint titers below 1:64 suggest that the patient does not have a current infection. These antibody levels may be found in patients with either no history of chlamydial infection or those with past infection whose antibody levels have dropped below detectable levels.

**Critical Values:** N/A

**Limitations:** Antichlamydial IgG can persist for years. All results from chlamydial serologies must correlate with clinical history and other data available to the physician.

Specimens collected too early during primary infection may not contain detectable antibodies. If chlamydial infection is suspected, a second specimen should be collected 10 to 21 days later and tested in parallel with the original specimen.

During a primary chlamydia infection, the early antibody response may be cross-reactive with multiple *Chlamydia* species.

This assay does not report antibodies detected against *Chlamydia trachomatis*. Sera from suspected cases of lymphogranuloma venereum (LGV) should be tested by a Lymphogranuloma Venereum Differentiation Antibody Panel. LGV testing is not performed by Mayo Clinic Laboratories; call 800-533-1710 for assistance. Due to the limited sensitivity and specificity of chlamydia serologic tests, patients with suspected *C trachomatis* infection should be tested by a molecular method (eg, CTRNA / *Chlamydia trachomatis*, Nucleic Acid Amplification, Varies) when clinical manifestations are present.

**Methodology:** Micro-Immunofluorescent Antibody (MIF) Assay

**References:** [Test Catalog - Mayo Clinic Laboratories \(mayocliniclabs.com\)](https://www.mayocliniclabs.com) April 2023

**Updates:** 4/18/2023: Initial entry