
Lab Dept: Serology

Test Name: CMV ANTIBODY, IGM

General Information

Lab Order Codes: CMVM

Synonyms: Anti-CMV Antibodies - IgM ; Cytomegalovirus Antibodies – IgM; CMV Antibodies, IgM

CPT Codes: 86645 – CMV antibodies (IgM)

Test Includes: Anti-CMV Antibodies, IgM

Logistics

Test Indications: Intended for the qualitative detection of IgM antibodies to Cytomegalovirus in human sera to indicate recent exposure to CMV.

Lab Testing Sections: Chemistry (Performed on the St. Paul campus)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2 – 10 hours, testing is performed daily

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red)

Draw Volume: 1 mL blood

Processed Volume: 0.2 mL serum

Collection: Blood should be collected aseptically by venipuncture and placed in a SST sterile container without anticoagulant and allowed to clot at room temperature.

Special Processing: Lab Staff: Centrifuge specimen as early as possible after it has clotted; transfer serum to a plain polypropylene tube and refrigerate. If testing is delayed longer than 2 days, serum should be frozen at -20°C or colder. Do not store serum in a self-defrosting freezer.

Patient Preparation: None

Sample Rejection: Sera exhibiting a high degree of hemolysis; icterus; lipemia or microbial contamination are not recommended because these conditions may cause aberrant results. Mislabeled or unlabeled specimens.

Interpretive

Reference Range:

The results will be reported as a numerical value with interpretation.	
<30	Negative
≥35	Positive
30 – 34.9	Equivocal
Expected values: Negative – No exposure to CMV. No detectable IgM antibodies present.	
Interpretation:	
IgM Result	Interpretation
Negative	No exposure to CMV or too early for antibody response
Positive	Patient has recently been exposed to CMV
Equivocal Result: “Borderline Result” – suggest repeat specimen be obtained in 7-14 days.	

Critical Values: N/A

Limitations:

Samples collected early in the course of a CMV infection may not have detectable levels of antibody. In such cases, it is recommended that a second serum sample be obtained 10-21 days later.

Positive results on CMV-IgG antibody in neonates should be interpreted with caution, since maternal IgG is transferred passively from mother to baby before birth. IgM assays are generally more useful indicators of infection in children below the age of 6 months.

Results from immunosuppressed patients should be interpreted with caution. Assay characteristics have not been established for immune compromised patients.

Methodology:

Chemiluminescent Immunoassay (CLIA)

References:

Liaison® CMV IgM (310750) (February 2009) Directions for Use, DiaSorin, Inc., Stillwater, MN 55082

NCCLS Guideline I/LA 18-A2 (September 2001) Specifications for Immunological Testing for Infectious Diseases; Approved Guideline-Second Edition, Vol 21, No 15

Updates:

9/12/2005: Testing turnaround time previously listed as 1-6 days, testing performed 1 time per week.

8/29/2011: Testing method change, previously listed as ELISA. Note updated reference ranges.

2/9/2016: Updated container types

8/13/2019: Updated TAT and stability.