
Lab Dept: Serology

Test Name: MUMPS (IGG) IMMUNE STATUS

General Information

Lab Order Codes: MUMPS

Synonyms: Mumps IgG Screen

CPT Codes: 86735 - Mumps

Test Includes: Mumps IgG reported as positive, equivocal or negative and includes an Index value.

Logistics

Test Indications: To determine immunity to mumps virus; post-immunization response or documentation of previous infection.

Lab Testing Sections: Serology - Sendouts

Referred to: Mayo Medical Laboratories (Test: MPPG)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 – 3 days, performed Monday - Saturday

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red) tube

Draw Volume: 1.5 mL (Minimum: 1.2 mL) blood

Processed Volume: 0.5 mL (Minimum: 0.4 mL) serum

Collection: Routine venipuncture

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| Special Processing: | Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly. |
| Patient Preparation: | None |
| Sample Rejection: | Specimen mislabeled or unlabeled; gross hemolysis; gross lipemia; heat-inactivated specimen |

Interpretive

Reference Range:

Vaccinated: Positive (≥ 1.1 AI)

Unvaccinated: Negative (≤ 0.8 AI)

Note: AI units = Antibody Index Value.

Interpretation:

Positive - The presence of detectable IgG-class antibodies indicated prior exposure to the mumps virus through infection or immunization. Individuals testing positive are considered immune to mumps virus.

Equivocal – Submit an additional sample for testing in 10 to 14 days to demonstrate IgG seroconversion if recently vaccinated or if otherwise clinically indicated.

Negative – The absence of detectable IgG-class antibodies suggests the lack of a specific immune response to immunization or no prior exposure to the mumps virus.

Critical Values:

N/A

Limitations:

Mumps virus shares antigenic relationships with other viruses of the paramyxovirus group; therefore, serologic cross-reactions are possible, but uncommon with this test procedure.

IgG class antibodies to mumps virus may be present in serum samples from individual who have received blood products within the past several months but have not been immunized or experienced past infection with this virus.

Serum samples drawn early during acute phase of infection may be negative for IgG-class antibodies to this virus.

Methodology:

Multiplex Flow Immunoassay (MFI)

References:

[Mayo Medical Laboratories](#) November 2017

Updates:

6/12/2013: Method update, previously listed as Enzyme Immunoassay
 10/16/2013: Added info on AI units to reference range.
 11/6/2017: Updated draw container.

