

TEST: RUBELLA IgG ANTIBODY

PRINCIPLE:

Rubella (German or “3 day” measles) is a mild, contagious rash primarily of children and young adults. Acute rubella virus infection in a child or adult is usually a self-limited, benign disease, characterized by low-grade fever, mild upper respiratory symptoms, an erythematous maculopapular rash and suboccipital lymphadenopathy. However, rubella can be a very serious disease early in pregnancy, leading to miscarriages, stillbirths or birth defects.

This test is to aid in the assessment of the patient’s immunological response to rubella and in the determination of the immune status of the individual, including females. The presence of IgM antibody or a significant rise in IgG for acute and convalescent specimens is evidence of acute rubella infection. The acute phase specimen should be drawn as soon after rash onset as possible; the convalescent-phase serum should be drawn 10 or more days after acute-phase specimen.

SPECIMEN REQUIREMENTS:

2ml serum collected in a red top tube with no additive or in a serum separator tube (gel barrier).

Separated serum should not be at room temperature no longer than 8 hours. If assays are not completed within 8 hours, the serum should be refrigerated (2°-8° C). If assays are not completed beyond 48 hours, samples are to be frozen at -20° C.

METHOD: ELISA

REFERENCES:

1. Herman, K.L. 1985 Rubella Virus, In: Manual of Clinical Microbiology. Lennette, E.H., Balows, A., Hausler, W. J. Jr. and Shadomy, H. J. (eds). 4th Edition, American Society of Microbiology, Washington, DC, p.779-784.
2. Turgeon, M.L. 1996. Rubella Infection. In: Immunology and Serology in Laboratory Medicine. 2nd Edition. Mosby. P. 275-286.
3. Diseases and Immunizations. Rubella Prevention: Recommendations of the Immunization Practices Advisory Committee (ACIP). Vol. 39. 1995. MedAccess Corp.

NORMAL RANGE:

Clinical Interpretation of immune status:

Negative: < 8.0 IU/ml (Presumed Non-Immune)

Equivocal: 8.0-9.9 IU/ml

Positive: \geq 10.0 IU/ml (Presumed Immune)

The following results were obtained with the Diamedix Immnosimplicity Rubella IgG EIA Test System. The magnitude of the measured result, above the cut-off, is not indicative of antibody present. The magnitude of the reported IgG level cannot be correlated to an end-point titer.

Turnaround time: One Week