

# TEST: RUBEOLA IgG (MEASLES) ANTIBODY

#### **PRINCIPLE:**

Measles (Rubeola) is a highly contagious acute disease. The incubation period is 10 to 11 days and the infection is characterized by fever, myalgias, nonproductive cough, conjunctivitis and exanthema and enanthem (Koplik's spots). The rash of rubeola almost always begins on the face and then spreads to the trunk and extremities. Typically, the illness crests on day three of the fever and the temperature falls to normal on day seven. With the widespread introduction of vaccines, the incidence of measles has been dramatically reduced.

This test is to aid in the assessment of the patient's immunological response to measles. The presence of specific antibodies in a single specimen indicates past measles infection or vaccination. Demonstration of a significant increase in antibody titers in a serum pair taken at a 7-14 day interval is the basis for diagnosis of acute infection.

## **SPECIMEN REQUIREMENTS:**

2ml collected in a serum separator tube (gel barrier). Separate serum from cells ASAP or within 2 hours of collection by centrifugation. Stability after separation from cells: Ambient: 7 Days; Refrigerated: 14 Days; Frozen: 1 year (avoid repeated freeze/thaw cycles).

**REJECTION CRITERIA:** Plasma or other body fluids. Gross hemolysis

METHOD: ELISA.

#### **REFERENCES:**

- 1. Snyder, R.C., Gaskins, S. E. and Pieroni, R.E. 1988. Rubeola. Amer. Fam. Phys. 37: 175-178.
- 2. Carter, M. J. and ter Meulen, V. 1987. Measles. In: Principle and Practice of Clinical Virology. Zuckerman, A.J., Bantavala, J. E. and Pattison, J. R. (eds). John Wiley and Sons Ltd., New York, p.291-314.
- 3. Salmi, A. A. Measles Virus. In: Manual of Clinical Microbiology. Baron, E.J., Pfaller, M.A., Tenover, F.C. and Yolken, R. H. (eds). 6th Edition, ASM Press, Washington, DC. p. 956-962.
- 4. Bio-Rad Measles IgG EIA, www.bio-rad.com/webroot/web/pdf/cdg/literature/J-110A Measles.pdf

# **NORMAL RANGE:** Not Applicable

## **RESULTS AND INTERPRETTION:**

<b>Index Value</b>	Interpretation
< 0.9	NEGATIVE for measles IgG, presumed NON-IMMUNE to measles infection
$\geq$ 0.9 and	EQUIVOCAL. Another specimen should be tested 10 to 14 days later in parallel with
< 1.1	the initial specimen. If the second specimen is Equivocal, the individual is negative for
	primary or recent measles infection and Equivocal for antibody status. If the 2nd sample
	is positive, the individual can be considered to have a primary infection.
≥ 1.1	POSITIVE for measles IgG, presumed IMMUNE to measles infection

**Turnaround time:** 7 business days