

Assay Qualification Information

Catalog No.: 53414

Cynomolgus Macaque IgM Quantification

SPECIES: Cynomolgus Macaque (*Macaca fascicularis*)
CROSS-REACTIVITY: Human, Baboon, Rhesus Macaque; does NOT cross react with Bovine or Porcine
METHOD: Enzyme-linked Immunosorbant Assay (ELISA)

PERFORMANCE:

Sensitivity	0.1 mg/mL
Intra-Assay CV	2.6%
Inter-Assay CV	18%
Analytical Range	0.1 - 10 mg/mL
Recovery Studies	92.4%

REFERENCE RANGES: Male = 2.3 - 3.9 mg/mL
Female = 0.8 - 3.2 mg/mL
General Population = 0.8 - 3.9 mg/mL

SPECIMEN REQUIREMENTS: 0.5 mL Serum

STABILITY: 107% through 3 freeze/thaw cycles, store at -20°C for up to 1 year

BACKGROUND: IgM is a 900 kDa pentavalent protein. The molecule possesses five variable regions each composed of light and heavy chains. IgM is the first immunoglobulin produced upon antigenic stimulation. The variable region imparts unique binding specificity while the heavy chain Fc μ constant region provides functional characteristics of the isotypic class.