

Assay Qualification Information

Catalog No.: 53404

Cynomolgus Macaque IgG Quantification

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

PERFORMANCE:

Sensitivity	0.5 mg/mL
Intra-Assay CV	3.8%
Inter-Assay CV	18%
Analytical Range	0.5 - 100 mg/mL
Recovery Studies	80.5%

REFERENCE RANGES: Male = 18.1 - 24.1 mg/mL
Female = 11.5 - 15.1 mg/mL
General Population = 11.5 - 24.1 mg/mL

SPECIMEN REQUIREMENTS: 0.5 mL Serum

STABILITY: 110% through 3 freeze/thaw cycles, store at -20°C for up to 1 year

BACKGROUND: IgG is a 150 kDa protein which contains two heavy chains and two light chains. The molecule possesses a variable region that is composed of the light chains and one end of each of the heavy chains. The variable region imparts unique binding specificity while the heavy chain (Fc μ) constant region provides functional characteristics of the isotypic class. The IgG class contains four subclasses, IgG1, IgG2, IgG3, and IgG4, each possessing different biological properties and functions.