HUMAN IgG
Purified Immunoglobulin
Reagent Grade

Product Description
Purified Human IgG is isolated from pooled normal human serum by fractionation and ion-exchange chromatography. The product is supplied as an essentially salt-free (less than 1% sodium), lyophilized powder.

Purified IgG may be used as a reference antigen, standard, blocking agent or coating protein in a variety of immunoassays including ELISA, dot immunobinding, Western immunoblotting, immunodiffusion and immunoelectrophoresis. Other applications include starting materials for the preparation of immunogens and solid-phase immunoadsorbents.

Reconstitution
The product is essentially a salt-free preparation and should be reconstituted to a minimum of 1 mg/ml with a saline (150 mM NaCl) solution. Protein concentration should be determined after reconstitution by absorbance at 280 nm ($E_{280}^{1\%} = 14$).

Storage
Prior to reconstitution, store at 2-8 °C. After reconstitution, store aliquots at –20 °C. Repeated freezing and thawing is not recommended.

Performance Characteristics
Appearance: White, lyophilized powder.
Solubility: Slightly hazy, colorless solution at 50 mg/ml in 0.85% NaCl.
Protein Content: ≥ 90% by weight ($E_{280}^{1\%} = 14$).
Sodium Content (ICP-Atomic Emission): ≤ 1% by weight.
Water Content (Karl Fischer): ≤ 10% by weight.
Identity (Immunoelectrophoresis): Single arc of precipitation in the gamma region at 50 and 250 µg of immunoglobulin versus anti-human whole serum and anti-human IgG.
Purity (SDS-PAGE, Non-Reduced): Not less than 95%.

BIOHAZARD: Handle as if capable of transmitting infectious agents. Refer to MSDS.

Source material tested and found negative for antibody to HIV, antibody to HCV, and for HbsAG.

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