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Product Information

SHEEP IgG Purified Immunoglobulin Reagent Grade

Product No. **I 5131**

Description

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

Uses

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 immunoabsorbents.

Reconstitution

The product is essentially a salt-free preparation and should be reconstituted to a minimum of 1mg/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.

Sodium Content (ICP-Atomic Emission): ≤1%

Water Content (Karl Fischer): ≤10%

Identity (Immunoelectrophoresis): Single arc of precipitation in the gamma region at 50 and 250 µg of immunoglobulin versus anti-sheep whole serum and anti-sheep IgG.

Purity (SDS-PAGE): Not less than 95%.

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