

Product Specification Sheet

Product: Biotin Conjugated IgG fraction of anti- α -1-anti-Trypsin [Human Plasma] [Goat]

Code: 200-106-147

Lot # 6232

Size: 10.0 mg

Physical State: Lyophilized

Antibody Concentration: 10.0 mg/ml (by UV absorbance at 280 nm)

Label: Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC)

Biotin/Protein Ratio: 10-20 BAC molecules per Goat IgG molecule

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: 10 mg/ml Bovine Serum Albumin (BSA) IgG and Protease free

Preservative: 0.01% (w/v) Sodium Azide

Application(s): Suitable for immunoblotting, ELISA, immunohistochemistry, immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates requiring lot-to-lot consistency.

Recommended Dilution(s): This product has been assayed against 1.0 ug of α -1-anti-Trypsin in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:8,000 to 1:29,000 of the reconstitution concentration is suggested for this product. Optimal titers for other applications should be determined by the researcher.

Storage Conditions: Store vial at 4° C prior to restoration. Restore with 1.0 ml of deionized water (or equivalent). For extended storage add glycerol to 50% and then aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of restoration.

Purity and Specificity: This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Goat Serum as well as purified and partially purified α -1-anti-Trypsin [Human Plasma]. Cross reactivity against α -1-anti-Trypsin from other sources is unknown.

Immunogen: α -1-anti-Trypsin [Human Plasma]

Conjugation Reference: Bayer & Wilchek *Methods in Enzymology* **184**; 138-160, 1990.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.