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Product Information

Anti-Human IgG (γ-Chain Specific)

F(ab')₂ fragment

produced in goat, affinity isolated antibody

Catalog Number **I9885**

Product Description

Anti-Human IgG (γ-chain specific) is developed in goat using purified human IgG as the immunogen. The F(ab')₂ fragment of the antibody is obtained from pepsin-digested antiserum by immunospecific methods of purification. Affinity isolation removes essentially all goat serum proteins, including immunoglobulins that do not specifically bind to the γ-chain of human IgG.

Specificity for the γ-chain of human IgG is determined by Ouchterlony Double Diffusion (ODD). The antibody preparation is specific for human IgG when tested against purified human IgA, IgG, IgM, Bence Jones kappa, and Bence Jones lambda myeloma proteins.

Identity and purity are established by immunoelectrophoresis (IEP). Electrophoresis of the antibody preparation followed by diffusion against anti-goat IgG and anti-goat whole serum result in single arcs of precipitation. The antibody preparation is found to consist only of the F(ab')₂ fragment of goat IgG as determined by SDS-polyacrylamide gel electrophoresis (SDS-PAGE). No contamination with goat IgG (whole molecule) is observed.

Protein Content is determined after reconstitution with 1.0 ml of 0.135 M NaCl, by absorbance at 280 nm using $E_{280}^{1\%} = 14$

Reagent

Lyophilized from 0.01 M sodium phosphate, 0.015 M sodium chloride, pH 7.2, to which no preservatives have been added.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

To one vial of lyophilized powder add sufficient 0.135 M sodium chloride to achieve a 1 mg/ml solution of antibody. Rotate vial gently until powder dissolves. This will yield a protein solution in 0.01 M phosphate buffered saline.

Storage/Stability

Prior to reconstitution, store the product at 2-8 °C.

After reconstitution, the solution may be stored frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage clarify the solution by centrifugation before use.

Product Profile

One milligram of affinity isolated antibody will react with 0.5-5.0 mg of human IgG as determined by single radial immunodiffusion.¹ The assay is performed in the presence of 5 mg/ml BSA.

Reference

1. Becker, W., Immunochem, **6**, 539, (1969).

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