Product Information

Anti-Human IgG (γ-Chain Specific) - Agarose

Antibody developed in goat
IgG fraction of antiserum

A6656

Product Description

The IgG fraction of goat Anti-Human IgG (γ-chain specific) antiserum is covalently attached to cyanogen bromide activated crosslinked beaded agarose with ≥ 5 mg of the IgG fraction bound per milliliter of resin. After equilibration, a minimum of 0.6 mg of human IgG can be bound and eluted per milliliter of packed resin.

Specificity for the γ-chain of human IgG is determined by Ouchterlony Double Diffusion (ODD) prior to agarose bead coupling. 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 of the antibody is established by immunoelectrophoresis (IEP) prior to agarose bead coupling. Electrophoresis of the product followed by diffusion versus anti-goat IgG and anti-goat whole serum result in single arcs of precipitation in the gamma region.

Reagent

The antibody-agarose is supplied as a suspension in 0.5 M NaCl containing preservative.

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the product at 2–8 °C.

Procedure

A two milliliter column of antibody-agarose is prepared using four milliliters of the antibody-agarose suspension. The column is equilibrated in 0.01 M sodium phosphate buffer, pH 7.2, containing 0.5 M NaCl (PB). The antigen solution to be bound is applied slowly and followed by a PB wash. Flow through fractions are collected and protein content determined (A_{280}).

Bound protein may be removed from the column by washing with 0.1 M glycine, pH 2.4, with 0.15 M NaCl **or** 0.5 M acetic acid, pH 2.4, with 0.15 M NaCl. Collect fractions containing protein, bring to neutral pH, and determine protein content (A_{280}).

The column should then be re-equilibrated in PB. The antibody-agarose may then be stored for future use at 2–8 °C in PB containing a preservative.

Notice

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