Product Information

Human IgG-Agarose

Purified Immunoglobulin

A6284
Storage Temperature 2-8 °C
Do Not Freeze

Product Description

The purified IgG fraction of normal human serum is covalently attached to cyanogen bromide activated cross-linked beaded agarose. Five to ten milligrams of IgG fraction are bound per milliliter of resin. The IgG-Agarose is supplied as a suspension in 0.5 M NaCl containing preservative. IgG-Agarose is prepared to be used as an immuno-adsorbent and can be used to affinity purify antibodies, remove species specific cross-reacting antibodies or remove contaminating antibodies from an antiserum preparation. The resin to antiserum ratio will vary with individual applications. Typically, cross-reacting antibodies may be removed from an antiserum preparation using an equal volume of IgG-Agarose (resin volume).

Precautions and Disclaimer

This product is 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

Human IgG-Agarose may be regenerated and used for future adsorptions. Strip the agarose with ten column volumes of 0.1 M glycine, 0.15 M sodium chloride, pH 2.4, or 0.5 M acetic acid, 0.15 M sodium chloride, pH 2.4, then wash with PBS (0.01 M sodium phosphate buffer, pH 7.2, containing 0.5 M sodium chloride). Regenerated agarose may be stored at 2-8 °C as a suspension in 0.5 M NaCl containing preservative.

Assay Conditions

A two-milliliter column of IgG-Agarose is prepared using four milliliters of the IgG-Agarose suspension. The column is equilibrated in 0.01 M sodium phosphate buffer, pH 7.2, containing 0.5 M NaCl (PBS). The antibody solution to be bound is applied slowly and followed by a PBS wash. Fall through fractions are collected and assayed for protein content (Lowry) and specificity. The column is then stripped by washing with 0.1 M glycine, 0.15 M NaCl, pH 2.4 or 0.5 M acetic acid, 0.15 M NaCl, pH 2.4. Peak fractions are pooled, brought to neutral pH, dialyzed and concentrated (if necessary), and tested for antibody content and specificity. After stripping the agarose, the column should be re-equilibrated in PBS. The IgG-Agarose may then be stored for future use at 2-8 °C in 0.5 M NaCl containing preservative.

Biohazard

Handle as if capable of transmitting infectious agents. Refer to SDS. Source material tested and found negative for antibody to HIV and HbsAG.

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