Hi-Bind™ Albumin-IgG Depletion Beads

CATALOG #:	7933-1	1 ml
	7933-5	5 ml
	7933-25	25 ml

FORMULATION: Provided as 50% aqueous slurry containing 20% ethanol.

BINDING CAPACITY: The binding capacity of the Hi-Bind™ Albumin-IgG Depletion Beads is > 8 mg of Human Serum Albumin and > 6 mg of IgG per ml of the drained gel/resin.

DESCRIPTION: The Hi-Bind™ Albumin-IgG Depletion Beads are prepared by covalent conjugation to cross-linked (4%) Agarose beads by a proprietary method.

APPLICATIONS: BioVision's Hi-Bind™ Albumin-IgG depletion beads can be used as an affinity purification matrix to deplete human albumin and IgG from plasma and serum samples for subsequent ELISA, immunoassays and other downstream analyses such as gel electrophoresis, functional assays, etc.

STORAGE CONDITIONS: Store at 4°C. Do not freeze the resin.

GENERAL PROTOCOL: The protocol given below is a general protocol for purifying proteins using Hi-Bind™ Albumin-IgG depletion beads. Certain modifications may be necessary to the protocol, depending upon the type of protein.

Suggested Binding Buffer: 50 mM Tris buffer, pH 8.0 or PBS.

Suggested Elution Buffer: Choose an appropriate elution buffer from the following:

- 50 mM Citric Acid buffer, pH 3.0.
- Other buffer containing a competing ligand.
- BioVision's proprietary buffer (Cat. # K6573-25-3).

1. **Column Preparation:** Carefully pack 1-5 ml of resin slurry in a disposable column avoiding air bubbles and allow the buffer to drain through. Wash the resin with 4x5 column volumes (CV) of Binding Buffer. Do not allow the resin to dry. Close the column outlet.
2. **Sample Preparation:** Load 100 to 500 µl serum on the resin (If necessary dilute to 5 ml with binding buffer). Close the column with a cap.
3. Allow the sample to bind to the resin for 1 h by mixing the suspension on a rotary shaker or intermittently by hand.
4. Open the column (both top and outlet) and collect the flow-through fraction. Wash the column with 5-10 CV of binding buffer. Combine washes together and concentrate if necessary.
5. Elute the protein from the resin using 50 mM Citric acid buffer pH 3.0 followed by BioVision's proprietary buffer.
6. Analyze the flow through, wash and eluted protein, by SDS-PAGE, UV or any other functional assay.

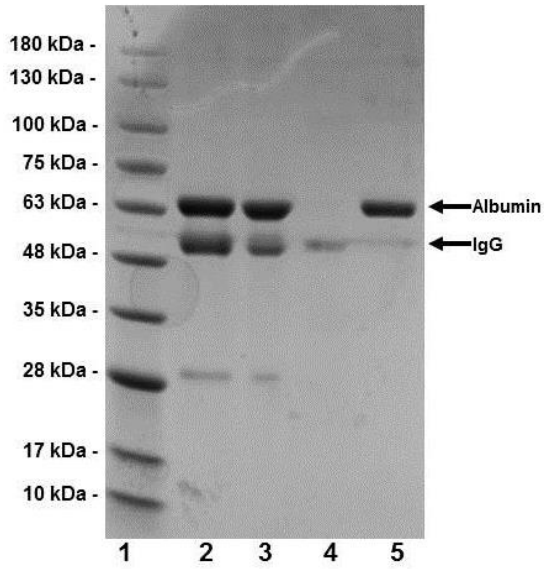

Figure: Hi-Bind™ Albumin-IgG depletion beads were used to isolate human serum albumin HSA and IgG from a mixture of Human albumin and IgG (4-20% reduced SDS-PAGE):
1: Protein Marker
2: HSA and IgG sample mixture
3:Flow-through fraction containing unbound HSA and IgG
4: Eluted fraction (primarily containing IgG, indicated by an arrow) from the beads using Citric acid buffer
5:Eluted fraction (primarily containing albumin, indicated by an arrow) from the beads using BioVision's proprietary buffer.

RELATED PRODUCTS:

- Albumin, Human Plasma **(7546-1)**
- Hi-Bind™ Cibacron Blue-Agarose Beads **(7923)**
- EZAlbumin™ Depletion Kit **(K6573)**
- Human Serum Albumin **(4016-1, -10)**
- Hi-Bind Ni QR Agarose Beads **(6562-1, -10, -100, 500)**
- Human IgG **(1269-100, -1000)**
- Albumin Fluorometric Assay Kit **(K550)**
- Albumin (BCG) Assay Kit (Colorimetric) **(K554)**
- Hi-Bind™ Protein A-Agarose **(6520-1, -5, -25, -100)**
- Hi-Bind™ Protein G-Agarose **(6513-1, -5, -25, -100)**

FOR RESEARCH USE ONLY! Not to be used in humans.

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