

Albumin and IgG Depletion SpinTrap

Product Information

Cat#No# AI-001P

Product Overview

Albumin and IgG Depletion SpinTrap are prepacked columns for the depletion of albumin and IgG from human serum and plasma. They are prepacked with high performance Sepharose based resins with an affinity for human serum albumin (HSA) and IgG.

Description

HiTrap Albumin and IgG Depletion and Albumin and IgG Depletion SpinTrap are prepacked columns for the depletion of albumin and IgG from human serum and plasma. The columns are prepacked with high performance Sepharose based media with an affinity for human serum albumin (HSA) and IgG. These columns are members of the Trap platform and address the need for flexible, small-scale preparation of protein samples prior to downstream analyses such as 1-D or 2-D gel electrophoresis and mass spectrometry.

A common problem when studying plasma or serum is the difficulty in detecting less abundant proteins. The most abundant plasma proteins are albumin and IgG, and they tend to obscure the signals of less abundant proteins. The high abundance of albumin and IgG also interferes with the detection of other proteins by preventing a sufficient amount of less abundant proteins from being included in the analysis. By depleting samples of albumin and IgG, the quality and depth of the analysis can be greatly enhanced. Depletion of the two proteins removes more than 60% of the total protein content in human plasma, allowing proteins normally obscured by albumin and IgG to be visualized.

Characteristic

Albumin and IgG Depletion SpinTrap is a prepacked column for the depletion of albumin and IgG from human serum or plasma.

Albumin and IgG Depletion SpinTrap handles smaller sample volumes (~50 µl) using a tabletop centrifuge. Columns are prepacked with high performance Sepharose based resin with an affinity for human serum albumin (HSA) and IgG.

High depletion capacity, removes > 95% HSA and > 90% IgG, with high reproducibility.
Simple and fast procedure.

Albumin and IgG Depletion SpinTrap

Removal of albumin and IgG allows a higher load of less abundant proteins to be included in the analysis and detection of more proteins.

Matrix

Highly cross-linked 6% agarose

Average particle size

34 μ m

Ligand

Recombinant Protein G fragment and recombinant protein binding HAS.

Recommended flow rate

1 ml/min

pH working range

2 to 9

CIP stability

3 to 9

Shelf life

24 months

Storage

2 to 8°C, in 20% Ethanol

Binding buffer

20 mM sodium phosphate, 0.15 M sodium chloride, pH 7.4.

Elution buffer

Bound albumin and IgG can, if so requested, be eluted by 0.1 M glycine-HCl, pH 2.7.

Equilibration

1. Add 400 μ L binding buffer and centrifuge for 30 s at 800 \times g. Discard the collected liquid.

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2. Add 400 μ L binding buffer a second time and centrifuge for 30 s at 800 \times g. Discard the collected liquid.

Pack size

10 columns

Maximum flow velocity

4 ml/min

Dimensions

0.7 \times 2.5 cm

Column volume

1 ml

Column hardware pressure limit

5 bar (0.5 MPa, 70 psi)
