



## Product Information Sheet

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# Anti-Human Beads

**Catalog # B0005-25**

**Size 5ml, 10ml, 25ml**

## Introduction

Anti-Human Beads contains sepharose beads coated with rabbit anti-human IgG, for purification of human IgG class of antibodies or proteins with affinity to rabbit anti-human IgG. The rabbit anti-human IgG is affinity purified and conjugated to the beads at 1-1.5 mg/ml ratio. This product can be used for 100-200 times. For frequent use, an aliquot can be stored at 4°C for 1 month with addition of 0.02% sodium azide (NaN<sub>3</sub>) to the storage buffer. It may also be used for immunoprecipitation (IP).

## Anti-Human Beads Specifications

Matrix: CNBr-activated Sepharose<sup>TM</sup> 4FF

Beads concentration: 1-1.5 mg/ml

Coupling conditions of matrix: pH 7-9, 4°C to 25°C, 2-16 h

Binding capacity: 4-7 mg IgG per ml

Bead size range: 45–165 µm

Mean bead size: 90 µm

Bead structure: Highly cross-linked agarose, 4%

Max. flow rate: 4 ml/min/cm<sup>2</sup>

Recommended flow rate: 1-3 ml/min/cm<sup>2</sup>

Stability of the matrix: pH 3-11 (ligand dependent)

Storage: Store at 4°C for frequent use, at -20°C for at least one year.

## Protocol



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### A: Buffers preparation

- Equilibration buffer A: 1% NaCl+0.1% Na<sub>2</sub>HPO<sub>4</sub>, pH≈7.5
- Equilibration buffer B: 1% CH<sub>3</sub>COONa adjusted pH to 5 by CH<sub>3</sub>COOH.
- Elution buffer: 2% table sugar adjusted pH to 2-3 by CH<sub>3</sub>COOH.
- Wash buffer: purified water
- Storage buffer: 30% glycerol

### B. Sample preparation

1. Dilute the serum with equilibration buffer A to ensure its content and pH closed to equilibration buffer A.
2. Centrifuge diluted serum supernatants to sediment debris.
3. Filter supernatants through 0.45μm filter.

### C. Affinity-purification

1. Load the Anti-human beads into the empty column.
2. Wash column with Wash buffer in 3-5 column volumes to remove the glycerol, and then, equilibrate column by washing with Equilibration buffer A in 5-10 column volumes.
3. Bring the sample to room temperature, and load it into the column by a syringe or a pump. The total volume of the sample applied is not critical in most cases.
4. Load the sample into the column and collect the flow liquid, repeat this action for 3-5 times. If necessary, repeat for more times, then deal with the collected liquid reasonably.
5. Wash the column with Equilibration buffer B to remove other proteins.
6. Elute with Elution buffer, collect the flow liquid (antibody), adjust its pH by saturated Na<sub>2</sub>CO<sub>3</sub> during collection. Then, customers can test the related data of the antibody as their own requirements.

### D. Re-equilibration and Storage

1. Add 5-10ml Elution buffer to column to elute thoroughly, then neutralize the column with Equilibration buffer A.
2. Wash the column bed with Storage buffer in 3-5 column volumes, seal the bottom of the column and store at -20℃ for at least one year. For frequent use, an aliquot can be stored at 4℃ for 1 month with addition of 0.02% sodium azide (NaN<sub>3</sub>) to the storage buffer.