

ProteoSpin™ Abundant Serum Protein Depletion Kit

The ProteoSpin™ Abundant Serum Protein Depletion Kit provides a fast and simple procedure for the effective depletion of major serum proteins including albumin, α -antitrypsin, transferrin and haptoglobin from serum and plasma samples. The kit is unique in that it is based on an ion-exchange mechanism and not the use of specific antibodies. As a result, the kit can be used to deplete serum proteins from a wide variety of samples, including human and various animals. Each spin column can deplete up to 500 μ g of serum proteins. Albumin has been found to be depleted by 70%, transferrin and haptoglobin by 50%, and α -antitrypsin by 90%. The complexity of the sample is thus greatly reduced, allowing for the detection of less abundant proteins present in the sample.



Kit Specifications			
Maximum Protein Input	500 μ g	Minimum Elution Volume	30 μ L
Minimum Protein Input	200 μ g	Time to Process 10 Samples	30 minutes

ProteoSpin™ Abundant Serum Protein Depletion Kit Benefits

Efficient removal of highly abundant proteins	The kit depletes 70% of albumin, 90% of α -antitrypsin, and 50% of transferrin and haptoglobin, enabling the visualization of low abundance proteins.
Fast and easy processing	Efficiently process up to 10 samples in less than 30 minutes using an easy-to-use protocol.
Does not rely on antibodies	Based on an ion exchange mechanism, the kit can be applied to serum and plasma samples from a range of sources, including human and various animals.
Complete kit	All columns and solutions required are provided.
Low price per column	Compared to columns based on antibodies, these ion-exchange columns are much lower in price, yet perform to the same high standards.
Depletion of proteins and salts	Most proteins bind to the column, while salts and many of the major proteins are removed in the flowthrough.
Suitable for downstream applications	<p>Final elution suitable for:</p> <ul style="list-style-type: none"> • SDS-PAGE • 2D gel electrophoresis • LC/MS • Microarrays

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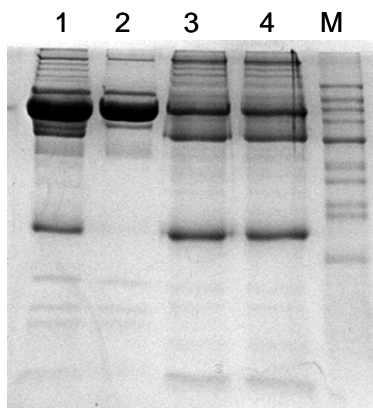


Figure 1. Depletion of Abundant Proteins

Abundant proteins were depleted from human serum using the ProteoSpin™ Abundant Serum Protein Depletion Kit. Lane 1 represents the input human serum proteins, while Lanes 3 and 4 represent the elution after the abundant proteins were depleted with the kit. Lane 2 represents the binding flowthrough, and contains the proteins that have been depleted from the serum sample.

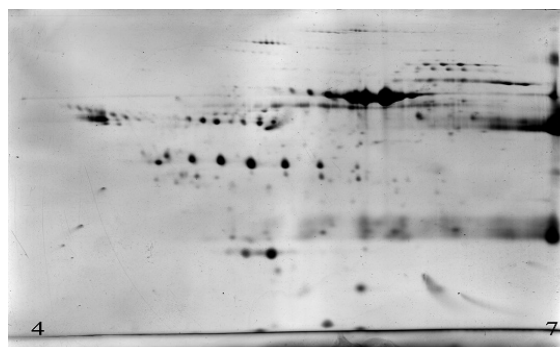


Figure 2. Depletion of Abundant Proteins

A 2D gel was run after the abundant serum proteins were depleted from human serum using the ProteoSpin™ Abundant Serum Protein Depletion Kit. The abundant proteins including albumin, α -antitrypsin, transferrin and haptoglobin have been removed from the sample, allowing the visualization and detection of the lower abundance proteins of interest.

Abundant Serum Protein Depletion Kit Contents

1. Column Activation and Wash Buffer
2. Elution Buffer
3. Neutralizer
4. Mini Spin Columns
5. Elution Tubes
6. Application Manual

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- Micropipettors

Storage Conditions

For unopened solution containers, the reagents should remain stable for at least one year when stored at room temperature. Once opened, the solutions should be stored at 4°C when not in use.

Shipping Conditions

The ProteoSpin™ Abundant Serum Protein Depletion Kit is shipped at room temperature.

Cat #	Description	Quantity
17300	ProteoSpin™ Abundant Serum Protein Depletion Kit	25 preps