

## 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,  $\alpha$ -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  $\mu$ g of serum proteins. Albumin has been found to be depleted by 70%, transferrin and haptoglobin by 50%, and  $\alpha$ -antitrypsin by 90%. The complexity of the sample is thus greatly reduced, allowing for the detection of less abundant proteins present in the sample.

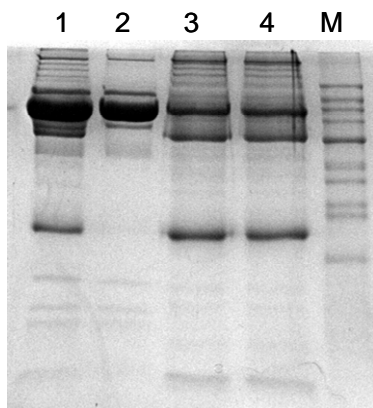


| Kit Specifications    |             |                            |            |
|-----------------------|-------------|----------------------------|------------|
| Maximum Protein Input | 500 $\mu$ g | Minimum Elution Volume     | 30 $\mu$ L |
| Minimum Protein Input | 200 $\mu$ g | Time to Process 10 Samples | 30 minutes |

### ProteoSpin™ Abundant Serum Protein Depletion Kit Benefits

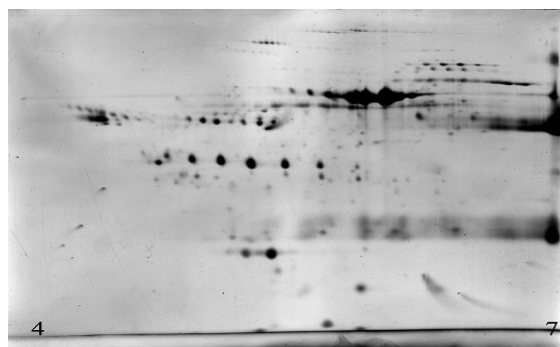
|                                               |                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Efficient removal of highly abundant proteins | The kit depletes 70% of albumin, 90% of $\alpha$ -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          | <b>Final elution suitable for:</b> <ul style="list-style-type: none"> <li>• SDS-PAGE</li> <li>• 2D gel electrophoresis</li> <li>• LC/MS</li> <li>• Microarrays</li> </ul> |

## ProteoSpin™ Abundant Serum Protein Depletion Kit



**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,  $\alpha$ -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 |