

## ProteoSpin™ Inclusion Body Isolation Micro Kit

The ProteoSpin™ Inclusion Body Isolation Micro Kit facilitates the screening of E. coli clones that express recombinant proteins in inclusion bodies. The kit includes reagents specially formulated to achieve rapid and high-quality purification of inclusion body proteins using three processes:

1. Lysis of bacterial cells to release inclusion bodies in solid form
2. Solubilization of purified inclusion bodies
3. Purification of the recombinant protein using spin column chromatography



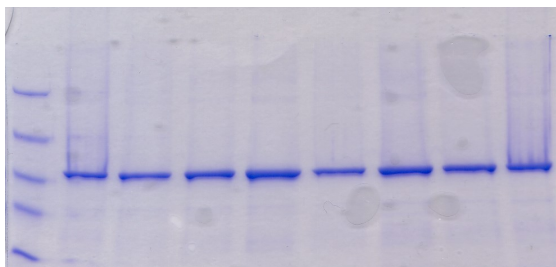
With optimized reagents and streamlined processes, the ProteoSpin™ Inclusion Body Isolation Micro Kit significantly reduces time and labour for screening and identifying clonal cell lines that can be used in scale-up production. The ProteoSpin™ Inclusion Body Isolation Micro Kit employs spin-column chromatography using Norgen's proprietary resin as an ion-exchanger. Each spin column is able to purify 2 – 50 mg of recombinant proteins from 1.5 mL of culture. The kit is designed to purify both acidic and basic proteins.

Kit Specifications			
Maximum Culture Volume	1.5 mL	Minimum Elution Volume	30 µL
Yield from 1.5 mL of Culture	2 - 50 µg	Time to Process 12 Samples	60 minutes

### ProteoSpin™ Inclusion Body Isolation Micro Kit Benefits

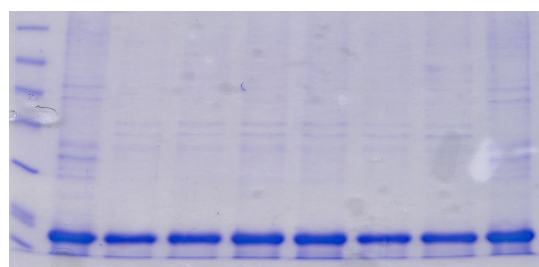
Three kits in one for acidic and basic proteins	The kit provides essential reagents for cell disruption, inclusion body solubilization and purification using spin column chromatography. The kit includes solutions and protocols for use with either acidic or basic proteins.
Gentle disruption procedure provides high purity final product.	Cell lysis is accomplished through non-ionic detergent chemical disruption. The use of a needle and syringe reduces viscosity and facilitates purification, producing proteins that are often >95% pure. Proteins are then ready for SDS-PAGE, 2D gels, mass spectrometry analysis or other procedures.
Convenient process volume	Analyze 1.5 mL of microbial cell culture yielding 2-50 µg of protein.
Fast and easy processing	Process up to 12 samples in only 60 minutes
Long kit shelf life	The kit uses an enzyme-free process with stable solutions for longer shelf life.
Suitable for downstream applications	<p><b>Final elution performed with volatile or non-volatile buffers suitable for:</b></p> <ul style="list-style-type: none"> <li>• Mass spectrometry</li> <li>• SDS-PAGE</li> <li>• Refolding experiments</li> </ul>

## ProteoSpin™ Inclusion Body Isolation Micro Kit



**Figure 1. Isolation of Acidic Proteins**

Isolation of a recombinant 50 kDa chimeric protein (acidic) using the ProteoSpin™ Inclusion Body Isolation Micro Kit.



**Figure 2. Isolation of Basic Proteins**

Isolation of recombinant RNaseA (basic protein) using the ProteoSpin™ Inclusion Body Isolation Micro Kit.

### Inclusion Body Isolation Micro Kit Contents

1. Wash Solution C
2. Wash Solution N
3. Binding Buffer A
4. Binding Buffer N
5. Elution Buffer C
6. Protein Neutralizer
7. Cell Lysis Reagent
8. IB Solubilization Reagent
9. Syringes, 1cc, slip tip
10. Needles (Bev, 20G x 1 inch)
11. Micro Spin Columns
12. Collection Tubes
13. Elution tubes (1.7 mL)
14. Product Insert

### Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- Micropipettors
- Sterile, deionized water or Milli-Q® water

### Storage Conditions

The Cell Lysis Reagent and the IB Solubilization Reagent should be stored at 4°C upon receipt of the kit. All other unopened solutions should be stored at room temperature. Once opened, the solutions should be stored at 4°C when not in use, except for the Basic and Acidic Binding Buffers, which should be stored at room temperature.

### Shipping Conditions

The ProteoSpin™ Inclusion Body Isolation Micro Kit is shipped at room temperature.

Cat #	Description	Quantity
10300	ProteoSpin™ Inclusion Body Isolation Micro Kit	25 samples
10600	ProteoSpin™ Inclusion Body Isolation Micro Kit	50 samples