

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 SiC spin column chromatography

The ProteoSpin™ Inclusion Body Isolation Micro Kit employs spin-column chromatography using Norgen's patented protein resin as an ion exchanger. Each spin column can isolate up to 50 µg of either acidic or basic protein from 1.5 mL of bacterial culture.



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	Final elution performed with volatile or non-volatile buffers suitable for: <ul style="list-style-type: none">• Mass spectrometry• SDS-PAGE• Refolding experiments

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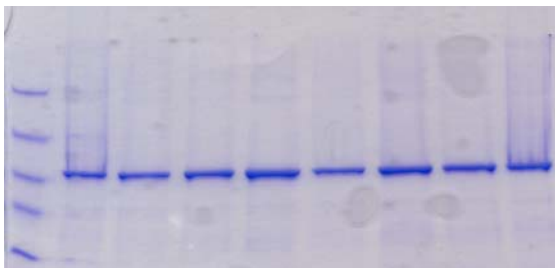


Figure 1. Isolation of Acidic Proteins

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

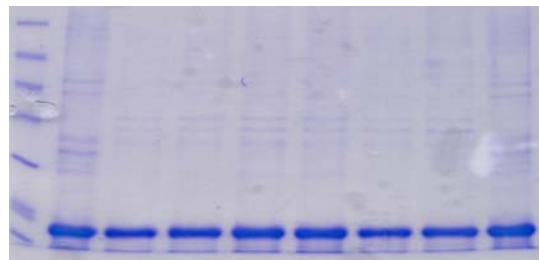


Figure 2. Isolation of Basic Proteins

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

Inclusion Body Isolation Micro Kit Contents

1. Cell Lysis Reagent
2. Inclusion Body Solubilization Reagent
3. Column Activation and Wash Buffer for Acidic Proteins
4. pH Binding Buffer for Acidic Proteins
5. Column Activation and Wash Buffer for Basic Proteins
6. pH Binding Buffer for Basic Proteins
7. Elution Buffer
8. Neutralizer
9. Micro Spin Columns
10. Collection Tubes
11. Elution Tubes
12. Syringes
13. Needles
14. Short Protocol Card
15. Application Manual

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- Micropipettors

Storage Conditions

The Cell Lysis and IB Solubilization Reagent should be stored at 4°C upon receipt of the kit. For other unopened solution containers, the reagents should remain stable for 1 year when stored at room temperature. Once opened, the solutions should be stored at 4°C when not in use except for the pH Binding Buffer Acidic and Basic, which should be stored at room temperature. Some precipitation will occur with 4°C storage. This precipitation should be dissolved with slight heating to room temperature before use.

Shipping Conditions

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

Cat #	Description	Quantity
10300	ProteoSpin™ Inclusion Body Isolation Micro Kit	20 samples
10600	ProteoSpin™ Inclusion Body Isolation Micro Kit	50 samples