

ProteoSpin™ Endotoxin Removal Micro Kit - For Proteins and Peptides -

The ProteoSpin™ Endotoxin Removal Micro Kit is designed for the rapid removal of endotoxins from up to 150 µg of previously purified proteins or peptides. Endotoxins liberated by Gram-negative bacteria are frequent contaminants of protein solutions derived from bioprocesses. Due to the high toxicity of endotoxins *in vivo* and *in vitro*, their removal from protein preparations is often necessary prior to the use of the protein in downstream applications. The ProteoSpin™ Endotoxin Removal Micro Kit efficiently reduces endotoxin levels to 0.01 EU/µg of protein or less. Purification is based on spin column chromatography using Norgen's proprietary resin as the separation matrix.



The ProteoSpin™ Endotoxin Removal Micro Kit is able to remove endotoxins from up to 150 µg of previously purified proteins or peptides, with protein recoveries of greater than 95%. The purified proteins can be used in a number of downstream applications including *in vivo* and *in vitro* introduction into cells and organisms, and monoclonal and polyclonal antibody generation.

Kit Specifications			
Maximum Protein Input	150 µg	Average Recovery	> 95%
Maximum Protein Volume Input	450 µL	Minimum Elution Volume	50 µL
Final Endotoxin Level	≤ 0.01 EU/µg protein	Time to Complete 10 Purifications	20 minutes

ProteoSpin™ Endotoxin Removal Micro Kit Benefits	
Fast and easy processing	Efficient processing of multiple samples in 20 minutes using an easy-to-use protocol.
Endotoxin-free proteins and peptides	The ProteoSpin™ Endotoxin Removal Micro Kit reduces endotoxin levels to ≤ 0.01 EU / µg of protein (Figure 1).
High recovery of input proteins	The average protein recovery is > 95% of the input amount (Figure 2).
Suitable for downstream applications	Final elution suitable for: <ul style="list-style-type: none"> • <i>In vivo</i> and <i>in vitro</i> introduction into cells and organisms • Monoclonal and polyclonal antibody generation

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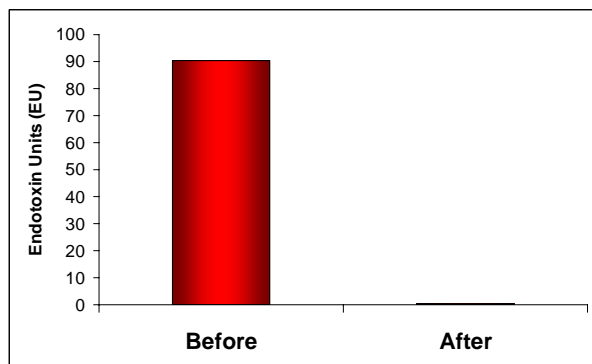


Figure 1. Endotoxin-Free Proteins

Endotoxins were removed from 100 µg protein samples in triplicate using the ProteoSpin™ Endotoxin Removal Micro Kit. On average, the endotoxin levels in the 100 µg samples were reduced from 0.9 EU/µg to 0.005 EU/µg.

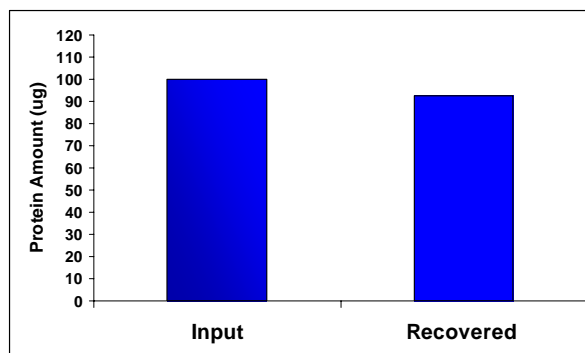


Figure 2. High Protein Recovery

An average protein recovery of greater than 95% was achieved when endotoxins were removed from 100 µg inputs of protein in triplicate. There is very little loss of protein associated with using the ProteoSpin™ Endotoxin Removal Micro Kit.

Endotoxin Removal Micro Kit Contents

1. Binding Buffer
2. Activation and Wash Buffer
3. Elution Buffer
4. Endotoxin Removal Solution
5. Neutralizer
6. Spin Columns
7. Elution Tubes
8. Product Insert

Shipping Conditions

The ProteoSpin™ Endotoxin Removal Micro Kit is shipped at room temperature.

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- Microcentrifuge tubes
- Isopropanol
- Sterile, deionized water or Milli-Q® water

Storage Conditions

All solutions should be kept tightly sealed and stored at room temperature. All the reagents should remain stable for at least 2 years in their unopened containers.

Cat #	Description	Quantity
22800	ProteoSpin™ Endotoxin Removal Micro Kit	20 preps