

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

The ProteoSpin™ Endotoxin Removal Maxi Kit is designed for the rapid removal of endotoxins from up to 4 mg of previously purified proteins or peptides. Endotoxins, also known as lipopolysaccharides, are cell-membrane components of Gram-negative bacteria such as *E. coli*. Endotoxins liberated by Gram-negative bacteria are frequent contaminations 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 Maxi Kit efficiently reduces endotoxin levels to ≤ 0.1 EU/mg of protein using spin column chromatography based on Norgen's proprietary resin.



The purified protein samples can be used in a number of downstream applications including *in vitro* and *in vivo* introduction into cells and organisms, sequencing, and cloning.

The ProteoSpin™ Endotoxin Removal Maxi Kit contains sufficient materials for 4 purifications. Each column is able to remove endotoxins from up to 4 mg of previously purified proteins, with protein recoveries of > 95% being achieved. Preparation time for a single sample is approximately 30 minutes.

Kit Specifications			
Maximum Protein Input	4 mg	Average Recovery	> 95%
Maximum Protein Volume Input	20 mL	Minimum Elution Volume	1 mL
Final Endotoxin Level	≤ 0.1 EU/ μ g protein	Time to Complete 10 Purifications	30 minutes

ProteoSpin™ Endotoxin Removal Maxi Kit Benefits

Fast and easy processing	Efficient processing of multiple samples in 30 minutes using an easy-to-use protocol.
Endotoxin-free proteins and peptides	The ProteoSpin™ Endotoxin Removal Maxi Kit reduces endotoxin levels to ≤ 0.1 EU / μ g 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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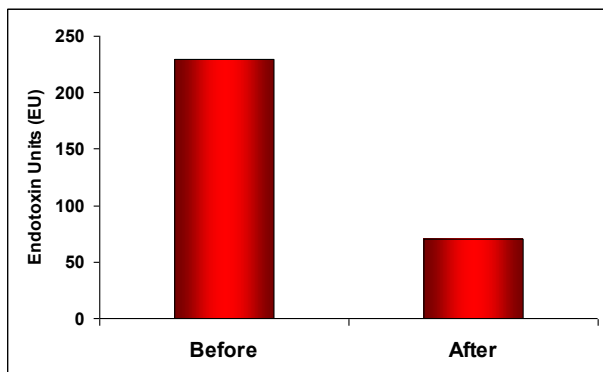


Figure 1. Endotoxin-Free Proteins

Endotoxins were removed from 1 mg protein samples in triplicate using the ProteoSpin™ Endotoxin Removal Maxi Kit. On average, the endotoxin levels in the samples were reduced to 0.07 EU/μg of protein using the ProteoSpin™ Endotoxin Removal Maxi Kit.

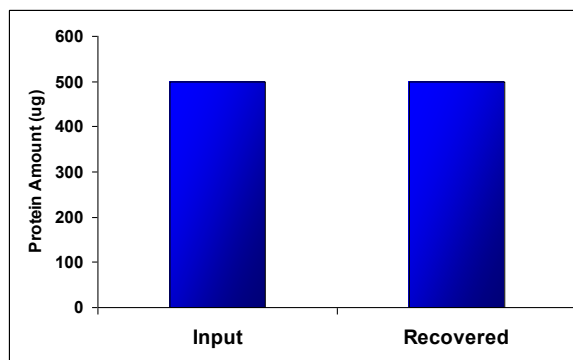


Figure 2. High Protein Recovery

An average protein recovery of greater than 95% was achieved when endotoxins were removed from 0.5 mg of protein in triplicate. There is very little loss of protein associated with using the ProteoSpin™ Endotoxin Removal Maxi Kit.

Endotoxin Removal Maxi Kit Contents

1. Binding Buffer J
2. Wash Solution M
3. Elution Buffer G
4. Endotoxin Removal Solution
5. Protein Neutralizer EF
6. Maxi Spin Columns (assembled with collection tubes)
7. Elution Tubes (50 mL)
8. Product Insert

Customer-Supplied Reagents and Equipment

- Swinging bucket centrifuge
- 50 mL conical tubes
- Isopropanol
- Sterile, deionized water or Milli-Q® water

Shipping Conditions

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

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
22200	ProteoSpin™ Endotoxin Removal Maxi Kit	4 preps
43600	ProteoSpin™ Endotoxin Removal Maxi Kit	24 preps