



# Proteus NoEndo™ $\mu$ (Micro) Spin Column Kits Protocol

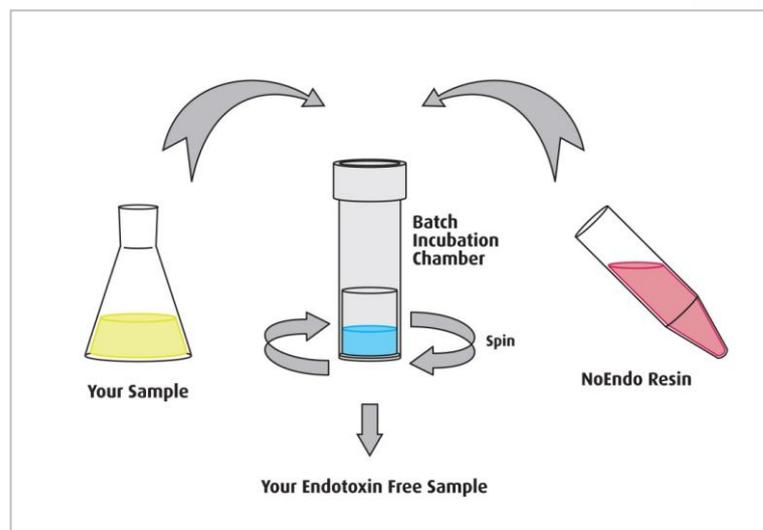
## Materials Supplied in the Kit:

- Vials containing NoEndo™ resin (50% NoEndo slurry).
- 2.2 ml centrifuge tubes.
- Proteus NoEndo  $\mu$  spin column (600  $\mu$ l capacity in a fixed angle microfuge).

## Additional Materials Required:

- 0.2  $\mu$ m syringe filters for clarification (We recommend Proteus mini-clarification spin columns from Protein Ark Ltd. Order code # GEN-MSF500 (100 pcs, 0.2  $\mu$ m low protein-binding PVDF membrane)).
- Low endotoxin pre-equilibration buffer (PBS recommended).
- 2.2 ml centrifuge tubes.
- A 45° fixed angle rotor in a microfuge capable of handling 2.2 ml centrifuge tubes (diameter 11 mm).
- Quartz cuvettes for UV absorbance measurements.
- UV/VIS spectrophotometer.
- Pyrogen-free test tubes, pipettes and buffer for Endotoxin Assay.

## Endotoxin Removal Protocol:



## Recommended Protocol:

### PRE-EQUILIBRATION

1. Transfer the spin column barrel to a fresh 2.2 ml centrifuge tube and load your required volume of filtered sample. The maximum sample volume is 600 µl. Close the lid and vortex for 15 seconds to mix the sample and the NoEndo™ resin. Repeat the vortexing every 15 min for 1 hour. To achieve final endotoxin loads, < 0.1 EU/ml, a further batch incubation of 1 hour may be required.

NOTE: If the sample needs filtering, use a Proteus Mini clarification spin column (Protein Ark Cat # GEN-MSF500, 0.2 µm pore size, 100 pc).

2. After batch incubation, centrifuge the column at 13,000 x g for 20 sec and collect the eluate. Spin times may need to be increased if the sample is not correctly filtered.

NOTE: If using one spin column, ensure that the spin column is counterbalanced with a unit of equal weight (adjusted with distilled water)

### PURIFIED SAMPLE

3. The eluate contains the target protein, largely depleted of endotoxin, and is now ready for further downstream analyses.

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### Technical Support:

The complete user guide for the Proteus NoEndo™µ spin column kits is available for download.

For further information please visit the website [www.proteinark.com](http://www.proteinark.com) or contact us via:

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