



EBR-3005.01 - EndoBind-R™ (5 ml Column) Product Sheet

Product Description:

EndoBind-R™ is a 5 ml column containing the Sushi 3 domain of horseshoe crab Factor C peptide bound to a 4% cross-linked beaded agarose support resin. It is used for the removal of low-level endotoxin from aqueous solutions, which features ease of use, high-binding affinity and high endotoxin capacity. Requires no special reagents or buffers and can be used over a broad range of conditions with high specificity.

U.S. Patent No. 6,719,973

Advantages:

- High binding affinity and capacity
- Non-cytotoxic; non-haemolytic
- Chemically-synthesized compound
- No special buffers required for binding or washing
- Large pore size
- Hydrophilicity minimizes non-specific binding

Procedure for Endotoxin Removal and Column Storage:

1. Remove the top cap followed by the bottom cap.
2. Allow the sodium azide storage solution to drain from the column.
3. Wash column with 50 ml endotoxin-free water to remove storage solution.
4. Equilibrate the column with 5-10 ml of sample buffer.
5. Add 2.5-5.0 ml of sample to column and allow it to enter the column bed by gravity flow rate. Collect flow-through in an endotoxin-free tube.
6. Add 2.5-5.0 ml of sample buffer to the column and collect flow-through. Repeat this until a total of 5 fractions have been collected.
7. For storage, wash column with 50 ml endotoxin-free water followed by 10 ml of 2 M sodium chloride followed by 50 ml endotoxin-free water. Rinse and fill the column in 0.02% sodium azide and store at 4°C.
8. The column can be regenerated 2-3 times by washing with 0.5 N sodium hydroxide.

| Product Characteristics | EndoBind-R™ |
|-------------------------|--|
| pH range (buffer) | pH 2-9 |
| Binding capacity | 2,000,000 EU/ml resin |
| Binding affinity | $10^{-7} - 10^{-8}$ M |
| Flow rate | Gravity |
| Purity | >98% Factor C sushi peptide |
| Temperature stability | Regular use between 4°C and room temperature |
| Buffers | Not required |

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