

Cleanera Endotoxin Removal Buffer Kit

Frequently Asked Questions (FAQs)

1. My chromatography column is clogged. Can the kit help restore its performance? What are your recommendations, and what steps should I take?

The buffer kit includes solutions designed to remove positively and negatively charged impurities, as well as hydrophobic contaminants. However, for effective cleaning, the buffers must be able to flow through the column at a rate of at least 0.5x the recommended column flow rate.

2. Can you provide more detailed recommendations on how the protocol differs for restoring various types of columns, such as A/G/L, Ni-NTA, CIEX, AIEX, SEC, etc.?

The cleaning protocol is primarily dependent on the column volume and the manufacturer's recommended flow rate rather than the column type itself. The protocol included in the kit can be used to clean any type of column.

3. Can this kit be used on columns with specialized ligands such as anti-CH1 or other VHH-based ligands?

Before using the buffers on specialized columns, it is important to check the column's maximum tolerance for NaOH or acid exposure. For columns with a maximum NaOH tolerance of 0.1M in Cleaning-in-place (CIP) processes, you can dilute Buffer A with four volumes of endotoxin-free water or omit Buffer A from the cleaning process.

4. Can the Endotoxin Removal Buffer Kit be used to remove impurities from used or clogged HPLC columns? If so, what steps should be taken, and how would they differ from the standard protocol?

Yes, the buffers can be used on HPLC columns. However, it is crucial to adhere to the column manufacturer's recommended pH range. For columns that cannot tolerate pH >7.0, we recommend skipping Buffer A and beginning the cleaning process with Buffer B instead.

5. I am seeing high absorbance at A280 with Buffer C. Is this normal?

Yes, proprietary components in Buffer C absorb at 280 nm. This is expected and should resolve once Buffer C is thoroughly washed away using Buffer D.

6. Can the Endotoxin Removal Buffer Kit be used to remove endotoxins from protein or antibody preparations?

No, the buffer set is optimized for cleaning chromatography columns used in protein and antibody purification, not for removing endotoxins bound to proteins. If you need assistance with endotoxin removal from protein preparations, please contact customer support.

7. I used an XYZ column for my protein preparation, but it still contains high levels of endotoxins. Can your kit help remove these endotoxins from my protein prep? If so, how should I use it?

This kit is designed to clean chromatography columns before and after purification, not to remove endotoxins from protein preparations. If your protein prep contains endotoxins, you may consider anion exchange chromatography as a potential method for endotoxin removal.

8. Can I use this buffer set for general column cleaning and chromatography system maintenance?

Yes! This kit can be used as part of your regular CIP protocol to maintain a clean and well-functioning system. The proprietary buffers included offer more effective cleaning than NaOH alone.



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