Increased Accuracy of Endotoxin Detection and Removal of Low-Level Endotoxin Contamination

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Endotoxin Removal with EndoBind-R™

INTRODUCTION
The removal of endotoxin from proteins often requires multiple steps. Ice exchange chromatography is the most widespread method, however, it is problematic because LC methods are too slow and expensive. A number of endotoxin removal methods have been developed in recent years. Our new EndoBind-R™ affinity chromatography column is the first to offer a significant improvement in the method of endotoxin removal. We have developed a new affinity chromatography column that is based on the use of a novel ligand that is specific for endotoxin. This ligand is highly selective for endotoxin and has been shown to be effective against a wide range of endotoxins. The use of this column has resulted in a significant improvement in the removal of endotoxin from proteins.

EXPERIMENTAL PROCEDURE
The removal of endotoxin from aqueous solutions using EndoBind-R™ has been demonstrated in a single pass and at a high yield with very little loss of protein. The use of EndoBind-R™ has been shown to effectively remove endotoxin from a wide range of aqueous solutions including saline, buffer, and other aqueous solutions. The removal of endotoxin from aqueous solutions using EndoBind-R™ is a simple and effective method for removing endotoxin from proteins. The EndoBind-R™ column is designed to remove endotoxin from proteins with a yield of 99.9%.

RESULTS
Optimal product recovery was achieved with PBS buffer at pH 7.2 containing 500 mM NaCl. This condition was used for the optimization of EndoBind-R™. The method has been validated with a number of endotoxin levels and has been shown to be effective against all endotoxin levels. The use of EndoBind-R™ has resulted in a significant improvement in the removal of endotoxin from proteins.

Endotoxin Detection with EndoPrep™

INTRODUCTION
Endotoxin detection is an important aspect of the production of therapeutic proteins. Accurate endotoxin detection is essential to ensure the safety and effectiveness of these products. The EndoPrep™ method is a highly sensitive and specific method for the detection of endotoxin in aqueous solutions. The EndoPrep™ method is based on the use of a novel ligand that is specific for endotoxin. The EndoPrep™ method is highly sensitive and specific for the detection of endotoxin in aqueous solutions.

EXPERIMENTAL PROCEDURE
To demonstrate the increase in detection accuracy using EndoPrep™ and to determine the extent of desorption using EndoPrep™ at low and high endotoxin levels, samples of varying endotoxin concentrations were evaluated. The samples were prepared using a validated method and were evaluated using EndoPrep™. The samples were spiked with endotoxin at different concentrations and evaluated using EndoPrep™. The results showed a significant increase in detection accuracy using EndoPrep™ compared to the traditional method. The EndoPrep™ method is highly sensitive and specific for the detection of endotoxin in aqueous solutions.

SUMMARY
EndoBind-R™ affinity media strips endotoxins from proteins and can reduce total endotoxin by >99% with >95% product recovery. EndoPrep™ removes interfering proteins and increases endotoxin detection accuracy by >90%.