

Endotoxin Removal Kit, Magnetic beads

Cat. No. Endotoxin Removal-002MB Lot. No. (See product label)

SPECIFICATION

Description


Removing endotoxin is one of the most challenging downstream processes during protein or DNA purification. Several methods are used to reduce endotoxin contamination of biological sample preparations, including affinity chromatography, such as immobilized polymyxin B, L-histidine, and poly-L-lysine, anion-exchange chromatography, gel filtration, ultrafiltration, sucrose gradient centrifugation, and Triton X-114 phase separation. The success of these techniques in reducing endotoxin contamination from a biological sample is strongly dependent on the properties of the target molecules. For example, ultrafiltration and ion exchange chromatography are commonly used techniques for removing endotoxin contaminants. Although ultrafiltration effectively removes endotoxins from water, it is not suitable for protein solution since the physical forces can damage the protein.

Anion exchangers can effectively remove the Endotoxin but cause a significant loss of biological material due to adsorption. Many commercially available products are made from traditional chromatography matrices such as agarose resin or column. These solid matrices make the endotoxin removal process tedious, time-consuming, unable to handle very tiny samples, and challenging to adapt to the automation system. Creative BioMart introduces a powerful magnetic beads-based endotoxin removal system to overcome these problems.

It is a highly efficient endotoxin removal kit, which is fixed on polymer magnetic microspheres with endotoxin binding protein as the ligand. Due to its magnetic properties, it is easy to separate and remove after specific endotoxin removal. The final endotoxin of samples purified by this endotoxin removal kit is less than 0.25EU/ml.

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Ligands	Endotoxin binding protein
Range of pH	4.5-8.5
Binding Capacity	20000-25000EU (endotoxin units) / ml
Storage	Ship at room temperature, Store at 4°C upon receipt.
Storage Buffer	Store at 0.01M PBS(pH=7.4).
Concentration	10 mg/ml

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