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Certificate of Analysis and Data Sheet

Recombinant Staphylococcal Protein-A

Catalog No.	**Source**
228-11449	*Escherichia coli.*

Synonyms:
Immunoglobulin G-binding protein A, IgG-binding protein A, Staphylococcal protein A, SPA.

Introduction:
Protein A is a cell wall protein deriving from Staphylococcus aureus which exhibits unique binding properties for IgG from a variety of mammalian species and for some IgM and IgA as well. It binds with the Fc region of immunoglobulins through interaction with the heavy chain. It couples to a wide variety of reporter molecules including fluorescent dyes, enzyme markers, biotin, colloidal gold and radioactive iodine without affecting the antibody binding site. Recombinant Protein A was developed to increase the specificity of the molecule for IgG and is widely used both in research and bioprocessing. The recombinant protein A is produced by expressing a modified protein A gene in E.coli. A specific purification process with strict quality control was taken to get the recombinant protein A with the purity of more than 98% , no human IgG affinity step is used during validated fermentation and purification and devoid of bacterial contaminant found normally in native Protein A. (Free of Staphylococcus endotoxins and hemolysin).

Description:
Recombinant Staphylococcal Protein A produced in E.Coli is a non-glycosylated, Polypeptide chain having a molecular mass of 45 kDa.
Recombinant Staphylococcal Protein A is purified by proprietary chromatographic techniques.

Physical Appearance:
Sterile Filtered clear colorless solution.

Formulation:
The protein solution contains no additives.

Stability:
SPA should be stored at -20°C.

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Purity:

Greater than 98.0% as determined by RP-HPLC.

Activity:

Greater than 95.0% binding activity to human IgG.