



Product Datasheet

Product Name	Staphylococcal Protein A Recombinant
Cata No	CB500977
Source	<i>Escherichia Coli.</i>
Synonyms	Immunoglobulin G-binding protein A, IgG-binding protein A, Staphylococcal protein A, SPA.

Description

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).

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.

Purity

Greater than 98.0% as determined by RP-HPLC.

Formulation

The protein solution contains no additives.

Stability

SPA should be stored at -20°C.

Activity

Greater than 95.0% binding activity to human IgG.