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## Product Data Sheet

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Product Name: Protein A  
Cat. No.: GP24668  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Immunoglobulin G-binding protein A; IgG-binding protein A; Staphylococcal protein A; SPA.		
Formulation	The protein solution contains no additives.		

### 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).

### Biological Activity

Greater than 95.0% binding activity to human IgG.

### Stability

SPA should be stored at -20°C .

### Background

Recombinant Staphylococcal Protein A produced in *E.Coli* is a non-glycosylated,

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Polypeptide chain having a molecular mass of 45 kDa. Recombinant Staphylococcal Protein A is purified by proprietary chromatographic techniques.

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