

Active Recombinant Staphylococcal Spa

Cat. No. spa-1286S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Staphylococcal Protein A produced in <i>E. Coli</i> was a non-glycosylated, Polypeptide chain having a molecular mass of 45 kDa. Recombinant Staphylococcal Protein A is purified by proprietary chromatographic techniques.
Species	Staphylococcus
Source	E.coli
Description	Protein A is a cell wall protein deriving from <i>Staphylococcus aureus</i> 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 <i>E.coli</i>. 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 <i>Staphylococcus</i> endotoxins and hemolysin).
Physical Appearance	Sterile Filtered clear colorless solution.

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Formulation	The protein solution contains no additives.
Activity	Greater than 95.0% binding activity to human IgG.
Purity	Greater than 98.0% as determined by RP-HPLC.
Stability	SPA should be stored at -20°C.

GENE INFORMATION

Gene Name	spa immunoglobulin G binding protein A precursor (protein A) [<i>Staphylococcus aureus</i> subsp. <i>aureus</i> str. Newman]
Synonyms	spa; immunoglobulin G binding protein A precursor (protein A)
Gene ID	5332074
Protein Refseq	YP_001331090

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