

Product datasheet for RA100F

Protein A (FITC conjugated) Staphylococcus aureus Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Protein A (FITC conjugated) s. aureus protein, 5 mg
Species:	Staphylococcus aureus
Concentration:	1.0 mg/ml after reconstitution
Purity:	This product was prepared from chromatographically pure Protein A. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein and anti-Protein A.
Conjugation:	FITC
Buffer:	State: Lyophilized purified Ig fraction. Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml BSA (IgG and Protease free) as stabilizer and 0.01% (w/v) Sodium Azide as preservative. Label: Fluorescein isothiocyanate (FITC) (Molecular Weight 390 daltons). <u>Absorption/Emission Wavelength:</u> 495 nm/528 nm. <u>Fluorochrome/Protein Ratio:</u> 4.6 moles FITC per mole of Protein A. Presentation Label: FITC
Reconstitution Method:	Restore with 5.0 ml of deionized water (or equivalent).
Preparation:	Lyophilized purified Ig fraction.
Applications:	Immunofluorescence Microscopy (1/1,000-1/5,000) Flow Cytometry/FACS (1/1,000-1/5,000) as well as other antibody based fluorescent assays.
Protein Description:	Fluorescein Conjugated Protein A.
Storage:	Store vial at 2-8°C prior to restoration. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 2-8°C as undiluted liquid. Dilute only prior to immediate use.
Stability:	Shelf life: one year from despatch.



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Summary:

Protein A is a surface protein of *S.aureus* which binds IgG molecules by their Fc region. In serum, the bacteria will bind IgG molecules in the wrong orientation on their surface which hinders opsonization and phagocytosis. Mutants of *S. aureus* lacking protein A are more efficiently phagocytosed in vitro, and mutants in infection models have diminished virulence. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein A is considered a universal reagent in biochemistry and immunology.