

Product datasheet for **RA021F**

Streptavidin Protein

Product data:

Product Type:	Native Proteins
Description:	Streptavidin protein, 1 mg
Protein Source:	<i>S. avidinii</i>
Concentration:	lot specific
Purity:	: Prepared from Chromatographically pure Streptavidin.
Conjugation:	FITC
Buffer:	State: Lyophilized purified Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml BSA (IgG and Protease free) and 0.01% (w/v) Sodium Azide as preservative. Label: Fluorescein isothiocyanate (FITC) (Molecular Weight 390 Da). <u>Absorption/Emission Wavelength:</u> 495 nm/528 nm <u>Fluorochrome/Protein Ratio:</u> 2.2 moles FITC per mole of Streptavidin. Presentation Label: FITC
Reconstitution Method:	Restore with 1.0 ml of deionized water (or equivalent).
Preparation:	Lyophilized purified
Applications:	Suitable for Immunofluorescence Microscopy and Flow Cytometry or FACS analysis as well as other antibody based fluorescent assays. <u>Recommended Dilutions:</u> FLISA: 1/10,000-1/50,000. IF Microscopy: 1/1,000-1/5,000. Flow Cytometry: 1/500-1/2,500.
Protein Description:	Fluorescein Conjugated Streptavidin
Note:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein and anti-Streptavidin.
Storage:	Store vial at 2-8°C prior to restoration. For extended storage aliquot contents and freeze at -20°C or below. Centrifuge product if not completely clear after standing at room temperature. This product is stable for one month at 2-8°C as an undiluted liquid. Dilute only prior to immediate use. Avoid cycles of freezing and thawing.



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Stability: Shelf life: one year from despatch.

Summary: Streptavidin is a tetrameric protein purified from *Streptomyces* sp. that binds very tightly to the vitamin biotin with a K_d of $\sim 10^{-14}$ mol/l. The high affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits.