

## Product datasheet for RA021TR

### Streptavidin Protein

#### Product data:

<b>Product Type:</b>	Native Proteins
<b>Description:</b>	Streptavidin protein, 1 mg
<b>Protein Source:</b>	S. avidinii
<b>Concentration:</b>	lot specific
<b>Purity:</b>	Prepared from chromatographically purified Streptavidin.
<b>Conjugation:</b>	Texas Red
<b>Buffer:</b>	State: Lyophilized purified Ig fraction. Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml Bovine Serum Albumin (BSA), IgG and Protease free and 0.01% (w/v) Sodium Azide as preservative. <b>Label:</b> Conjugated to Texas Red - Sulfonyl Chloride (Molecular Weight 625 daltons). <b>Absorption/Emission:</b> 596 nm/620 nm. <b>Fluorochrome/Protein Ratio:</b> 2.0 moles Texas Red™ per mole of Streptavidin. Presentation Label: Texas Red
<b>Reconstitution Method:</b>	Restore with 1.0 ml of deionized water (or equivalent).
<b>Preparation:</b>	Lyophilized purified Ig fraction.
<b>Applications:</b>	This product is designed for Immunofluorescence Microscopy, Fluorescence based plate assays (FLISA) and Fluorescent Western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. <b>Recommended Dilutions:</b> FLISA: 1/10,000-1/50,000. Flow Cytometry: 1/500-1/2,500.
<b>Protein Description:</b>	Purified Streptavidin (Streptomyces Avidinii).
<b>Note:</b>	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Streptavidin. No reaction was observed against anti-Avidin.



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**Storage:** Store vial at 2-8°C prior to restoration. For extended storage mix product with glycerol to 50% and then 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 several weeks at 2-8°C as an undiluted liquid.  
Dilute only prior to immediate use.  
Avoid cycles of freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**Summary:** Streptavidin, a tetrameric protein secreted by *Streptomyces avidinii*, binds tightly to a small growth factor biotin. It finds wide use in molecular biology through its extraordinarily strong affinity for the vitamin biotin; the dissociation constant (Kd) of the biotin-streptavidin complex is on the order of ~10-15 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.