

# Product Information

## Streptavidin, R-PE Conjugate

**Catalog number:** 29044-200uL, 29044-1mL

**Unit size:** 200 uL or 1 mL

**Concentration:** 0.5 mg/mL in pH-7.4 PBS containing 2 mg/ml bovine serum albumin (IgG-free and protease-free) and 0.05% sodium azide.

**Form:** Red solution

### Spectral Property

$\lambda_{\text{abs}}/\lambda_{\text{em}}$  (in pH 7.4 PBS buffer): 496, 546, 555 nm/576 nm

### Storage and Handling

Store at 4°C, protected from light. Storage at -20°C is not recommended for R-PE conjugates. Product is stable for at least 6 months from date of receipt when stored as recommended.

### Product Description

Streptavidin conjugates can be used to detect biotinylated molecules with extremely high sensitivity. They are commonly used as secondary reagents to detect biotinylated primary probes such as antibodies in flow cytometry, Western blotting, immunocytochemistry and other applications.

The red fluorescent protein R-phycoerythrin (R-PE) belongs to the family of phycobilliproteins, which are derived from cyanobacteria and eukaryotic algae. R-PE has absorption maxima at 496, 546, and 565 nm respectively and emission at 578 nm. Because of its high extinction coefficient (~1,960,000) and high fluorescence quantum yield (~0.82), R-PE is by far the brightest dye for the 565 nm wavelength region.

For most fluorescent streptavidin applications, a concentration of 1 - 10 µg/mL is sufficient; however, optimal conditions should be determined empirically.

### Other Related Products

You also may be interested in the following related products:

#### CF™ dye streptavidin conjugates

Catalog No.	Product Description	Unit Size
29031	Streptavidin, CF350 Conjugate	1 mg
29032	Streptavidin, CF405S Conjugate	1 mg
29033	Streptavidin, CF405M Conjugate	1 mg
29034	Streptavidin, CF488A Conjugate	1 mg
29038	Streptavidin, CF555 Conjugate	1 mg
29035	Streptavidin, CF568 Conjugate	1 mg
29036	Streptavidin, CF594 Conjugate	1 mg
29037	Streptavidin, CF633 Conjugate	1 mg
29039	Streptavidin, CF647 Conjugate	1 mg
29040	Streptavidin, CF660R Conjugate	1 mg

#### CF™ dye conjugated mouse monoclonal anti-biotin antibody

Catalog No.	Product Description	Unit Size
20203	CF405S mouse monoclonal anti-biotin, 2 mg/mL	0.25 mL
20203-1	CF405S mouse monoclonal anti-biotin, 2 mg/mL	50 uL
20204	CF488A mouse monoclonal anti-biotin, 2 mg/mL	0.25 mL
20204-1	CF488A mouse monoclonal anti-biotin, 2 mg/mL	50 uL
20205	CF594 mouse monoclonal anti-biotin, 2 mg/mL	0.25 mL
20205-1	CF594 mouse monoclonal anti-biotin, 2 mg/mL	50 uL
20206	CF633 mouse monoclonal anti-biotin, 2 mg/mL	0.25 mL
20206-1	CF633 mouse monoclonal anti-biotin, 2 mg/mL	50 uL
20207	CF640R mouse monoclonal anti-biotin, 2 mg/mL	0.25 mL
20207-1	CF640R mouse monoclonal anti-biotin, 2 mg/mL	50 uL

#### Other R-PE bioconjugates

Catalog No.	Product Description	Unit Size
29045-100uL	Annexin V, R-PE Conjugate	20 assays
29045-500uL	Annexin V, R-PE Conjugate	100 assays

Biotium offers a wide selection of fluorescent dye labeled products including secondary antibodies, antibody labeling kits, and other bioconjugates, featuring our proprietary line of exceptionally bright and photostable CF™ dyes. Please visit our website at [www.biotium.com](http://www.biotium.com) for details.