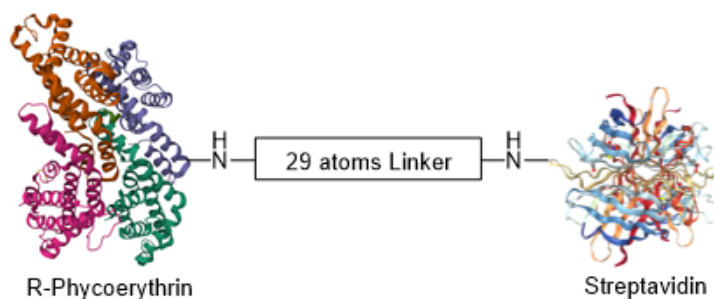


## R-PE-Streptavidin (1:2) Conjugate (Fluorescent Biotin Detection Reagent)

Buffered solution, 100 microgram or 500 microgram per tube, ≥99% conjugates by HPLC

Product Number: **CM54202**



### Product Description

R-Phycoerythrin (PE) is an extremely bright red-orange fluorescent dye isolated from red algae. R-PE-Streptavidin conjugates are commonly used for detecting biotinylated antibodies and other biotinylated molecules in fluorescence-based assays, such as flow cytometry, microarray assays, and ELISAs. R-PE conjugates often provide 5 to 10 times greater sensitivity in these applications compared to fluorescein-labeled conjugates. The quality of the conjugate and linker significantly affects background levels and assay sensitivity.

CellMosaic's R-PE-Streptavidin conjugate is designed with a long, flexible linker composed of PEG and ethylene-type segments (29-atom length) to preserve streptavidin's biotin-binding activity. Each lot of conjugate consists primarily of two streptavidin molecules labeled R-PE (1:2) conjugates, purified by size-exclusion chromatography.

This product is sold as one vial of 100 microgram (Cat# CM54202-100UG) or 1 vial of 500 micrograms (Cat# CM54202-500UG). For bulk orders, please contact us for a quote.

### Application

- Suitable for detection of biotinylated antibodies and molecules in fluorescence-based assays, including flow cytometry, ELISAs, and microarrays.

### Key Features of this R-PE-Streptavidin (1:2) Conjugate

- Double-labeled conjugates, purified by size-exclusion chromatography for high purity and performance.
- Retention of biotin binding
- Conjugation verified and quantified by UV and HPLC

### Chemical Information

- **Chemical Name:** R-PE-Streptavidin (1:2) Conjugate
- **Chemical Formula:** N/A
- **Molecular Weight:** 344 KDa
- **CAS Number:** N/A

## Specification

- **Physical Appearance:** Red-pink colored solution in 1 x PBS buffer without preservatives
- **Storage Temp.:** Store at 2-8°C.
- **Purity:** ≥99% by SEC HPLC
- **Number of Biotin Binding Sites per Conjugate:** 7-10 (Refer to the COA for Lot-specific results)
- **Excitation Max:** 565 nm
- **Emission Max:** 576 nm