

# Specification Sheet

## R-Phycoerythrin (R-PE)

From	Rhodophyta
Molecular Weight	240 kDa
Subunit structure	( $\alpha\beta$ ) $_6\gamma$
Absorption Maximum	565 nm $\pm$ 2nm
Emission Maximum	574 nm $\pm$ 2nm
Extinction Coefficient	1.96 $\times$ 10 <sup>6</sup> cm <sup>-1</sup> M <sup>-1</sup>
Protein Concentration	$\geq$ 15 mg/ml
Purity	A <sub>565</sub> /A <sub>280</sub> $\geq$ 5.5 A <sub>565</sub> /A <sub>498</sub> $\leq$ 1.5 A <sub>620</sub> /A <sub>565</sub> $\leq$ 0.005
Stability	Supplied in 100 mM sodium phosphate buffer pH7.0 with 60 % ammonium sulfate, 1mM EDTA, and 1mM sodium azide
Shelf life	2 years under proper storage conditions
Storage	Store at 4°C, away from light. Do not freeze.
Preparation Before Use	R-PE is stored in ammonium sulfate solution. Therefore, R-PE needs to be re-suspended until no visible precipitates. Firstly, it must be extensively dialyzed prior to use or column to remove any remaining ammonium sulfate. Use PBS or your conjugation buffer (1 ml of R-PE to 1 liter buffer) to dialyze at least two changes of buffer.
Origin	R.O.C.

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