

# Specification Sheet

## Allophycocyanin (APC)

---

From	Cyanophyta
Molecular Weight	105 kDa
subunit structure	( $\alpha\beta$ ) <sub>3</sub>
Absorption Maximum	651 nm $\pm$ 2nm
Emission Maximum	660 nm $\pm$ 2nm
Extinction Coefficient	$7.0 \times 10^5 \text{ cm}^{-1} \text{ M}^{-1}$
Protein Concentration	$\geq 15 \text{ mg/ml}$
Purity	A650/A280 5.0 A650/A620 1.5
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	APC is stored in ammonium sulfate solution. Therefore, APC 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 APC to 1 liter buffer) to dialyze at least two changes of buffer.
Origin	R.O.C.

---