

Native Spirulina sp. Allophycocyanin protein

Cat. No. APC-137 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Spirulina sp. Allophycocyanin was purified from Spirulina sp.. Absorption Maximum: 651 nm± 2nm. Emission Maximum: 660 nm± 2nm. Extinction Coefficient: $7.0 \times 10^5 \text{ cm}^{-1} \text{ M}^{-1}$.
Species	Spirulina sp.
Source	Spirulina sp.
Description	Allophycocyanin (APC) is isolated from Spirulina sp., a blue-green alga. APC is fluorescent, with an extremely high absorptivity and a high quantum efficiency. Without altering its spectral characteristics, it is a protein which can be easily linked to antibodies and other proteins by conventional protein cross-linking techniques.
Form	Supplied in 100 ml sodium phosphate buffer pH7.0 with 60% ammonium sulfate, 1mM EDTA, and 1mM sodium azide.
Molecular Mass	105 kDa
Purity	$A_{651}/A_{280} \geq 5.0$ $A_{651}/A_{620} \geq 1.5$
Notes	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 of buffer) to dialyze at least two changes of

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	buffer.
Stability	2 years under proper storage conditions.
Storage	Store at 4 centigrade, away from light. Do not freeze. For research or further manufacturing use only.
Concentration	15 mg/ml

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