



**Fluodyn™ ALLOPHYCOCYANIN**

From *Spirulina Platensis*, Lyophilised PureGrade

*“Improve your fluorescence power with our high quality Allophycocyanin”*

**Product Information**

Overview

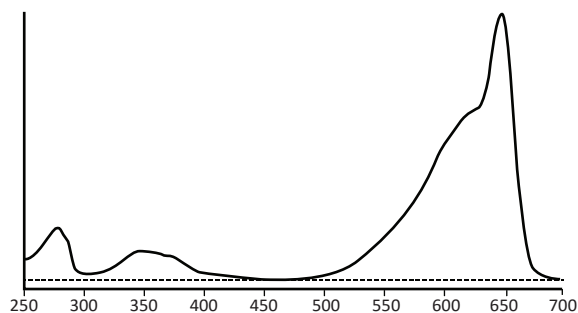
Fluodyn™ Allophycocyanin (APC) is a water-soluble fluorescent pigment protein extracted from *Spirulina* thanks to an innovative process developed by Biosciencia®. Allophycocyanin is a part of the photosynthetic machinery of cyanobacteria and its structure optimizes the capture and transfer of light energy. When the individual molecules are purified and isolated, they become highly fluorescent. Due to its high quantum yield and absorbance/fluorescent properties, APC offers a wide range of abilities as immunological assays, protein labelling, FRET and cell sorting. Labeling of macromolecules with APC can provide absorbance coefficients 30-fold higher than with small synthetic fluorophores.

Fluodyn™ Allophycocyanin is proposed under precipitated or lyophilized form. Precipitated form is provided with Quick Desalting System ready to use in few minutes. It can be conjugate with a wide range of molecules using standard reagent.

**Fluodyn™ Allophycocyanin exists under Cross-linked form.**

Spectrum

Fig. 1. Absorption spectra, wavelength in nm.



References

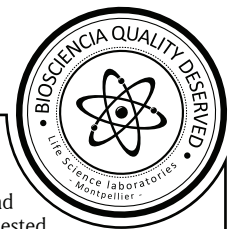
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 Kronick Mel N. , "The use of phycobiliproteins as fluorescent labels in immunoassay", *J. Immunol. Methods*, vol. 92, 1986.  
 McCartney, L. J. et al. , "Near-Infrared Fluorescence Lifetime Assay for Serum Glucose Based on Allophycocyanin-Labeled Concanavalin A.", *Anal. Biochem.* vol. 292, 2001.

Absorption maximum	<b>650 nm ±2</b>
Emission maximum	<b>660 nm ±2</b>
Quantum yield	<b>0.68</b>
Purity	<b>A<sub>650</sub>/A<sub>280</sub> &gt; 4.2</b> <b>A<sub>650</sub>/A<sub>620</sub> &gt; 1.25</b>
Molecular weight	<b>104 KDa</b>
Extinction coefficient	<b>7.3</b>
Laser compatibility	<b>640</b>

**Lyophilized Form**

Concentration	50% (w/w)
Formula	phosphate buffer with sugar as additive
Stability	Cf. product packaging
Storage	Store at 4°C away from light. Do not freeze
Origin	France

Specifications



All Biosciencia® products are manufactured in adherence to the same high standards. The quality and integrity of each batch is not only tested at each step of production and after production but we also strictly monitor their storage conditions to avoid any abnormal degradation. This high level of attention means that you always receive a certified, high quality product. (Each product is registered with a unique batch number and a Certificate of Analysis.)

**For in vitro research use only.  
Not for diagnostic or therapeutic procedures.**