



Fluodyn™ XL-ALLOPHYCOCYANIN

From *Spirulina Platensis*, CrossLinked Precipitated

“Improve your fluorescence power with our high quality XL-Allophycocyanin”

Product Information

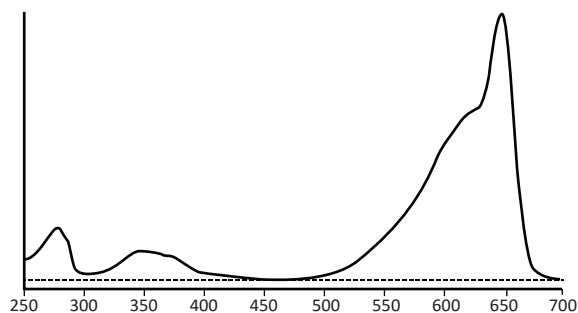
Overview

Fluodyn™ XL-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, XL-APC offers a wide range of abilities as immunological assays, protein labelling and cell sorting. Labeling of macromolecules with APC can provide absorbance coefficients 30-fold higher than with small synthetic fluorophores. XL-Allophycocyanin is crosslinked using chemical reagent to avoid natural dissociation of the protein subunits in dilute solutions.

Fluodyn™ XL-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.

Spectrum

Fig. 1. Absorption spectra, wavelength in nm.



References

Glazer AN, “Phycobilisomes: structure and dynamics.” *Annu Rev Microbiol*, Vol. 36, 1982.
 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.

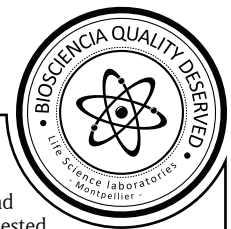
Absorption maximum	650 nm ±2
Emission maximum	660 nm ±2
Quantum yield	0.68
Purity	A₆₅₀/A₂₈₀ > 4.5 A₆₅₀/A₆₂₀ > 1.25
Molecular weight	104 KDa
Extinction coefficient	7.3
Laser compatibility	640

Precipitated Form (with QDS*)

Concentration	> 10 mg.ml ⁻¹
Formula	Ammonium sulfate 60% Sodium azide and EDTA
Stability	Cf. product packaging
Storage	Store at 4°C away from light. Do not freeze
Origin	France

*Quick Desalting System

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.