**Fluodyn™ C-PHYCOCYANIN**

From Spirulina Platensis, Precipitated PureGrade

“Improve your fluorescence power with our high quality C-Phycocyanin”

**Product Information**

Fluodyn™ C-Phycocyanin (C-PC) is a light-harvesting phycobiliprotein and one of the major accessory pigment constituent in the photosynthetic machinery of Spirulina Platensis. It’s composed of two dissimilar α and β protein subunits of approximately 17000 and 19500 Daltons, respectively, with one bilin chromophore attached to the α subunit, two to the β subunit and exists as a complex of trimer, hexamer and decamer aggregates. When purified and isolated, the protein become highly fluorescent because the molecule no longer have any nearby acceptors to which to transfer the absorbed energy. C-PC is a natural blue dye, watersoluble, brilliantly coloured and highly fluorescent. The broad absorption band of our protein results in a significant separation of excitation and emission wavelengths, the Stokes shift, so that phycocyanin fluorescence can be easily discriminated from that of other dyes or from endogenous fluorescent molecules in samples.

Fluodyn™ C-Phycocyanin is proposed under precipitated or lyophilized form. Precipitated form is provided with Quick Desalting System ready to use in few minutes.

**Overview**

Absorption maximum 620 nm ±2
Emission maximum 640 nm ±2
Quantum yield 0.81
Purity $A_{620}/A_{280} > 4$
$A_{650}/A_{620} < 0.3$
Molecular weight 104 KDa
Extinction coefficient 7
Isoelectric point 4.65

**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**

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

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**References**


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