

CERTIFICATE OF ANALYSIS

PRODUCT NAME: PHYCOPRO™ CROSS-LINKED ALLOPHYCOCYANIN (from *Spirulina platensis*)

PRODUCT CODE: PB25

LOT NUMBER: 275 192

FORMULATION: Protein suspension in 60% ammonium sulfate, 0.1 M sodium phosphate (pH 7.0)

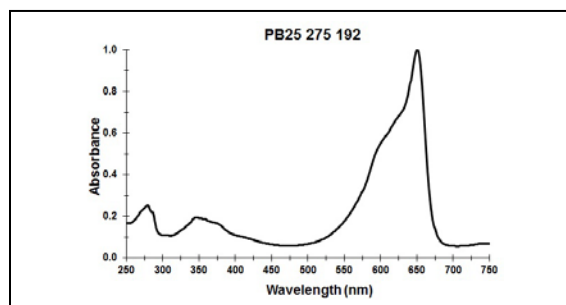
STORAGE: Store at 2-8°C in the dark. DO NOT FREEZE.

EXPIRATION: December 2020

QUALITY CONTROL

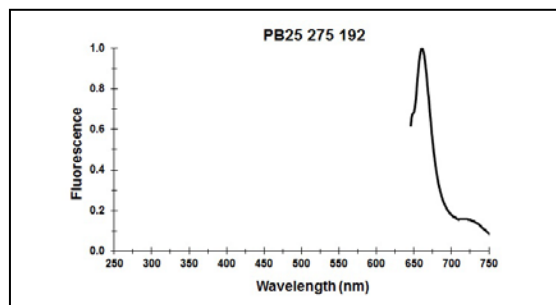
Parameter	Lot Data	Specification
Concentration ¹	12.1 mg/ml	≥10.0 mg/ml
Cross-link Ratio ²	1.44	≥1.00
Absorbance λ_{Max}	650 nm	report only
Excitation λ_{Max}	651 nm	report only
Emission λ_{Max}	661 nm	report only
A_{650}/A_{280}	5.12	≥4.60
A_{650}/A_{620}	1.56	≥1.50

Absorbance Spectrum



Fluorescence Spectrum

(Arbitrary units, Excitation at 645 nm)



Authorized Signature

¹ Determined spectrophotometrically using extinction coefficient of 73 (1% at 650).

² The cross-link ratio is the ratio of A₆₅₀/A₆₂₀ in the presence of 1M sodium perchlorate in 25 mM Tris-HCl (pH 7.7). For APC that has not been cross-linked, this ratio is about 0.3.