CERTIFICATE OF ANALYSIS

PRODUCT:	PHYCOPRO™ PERIDININ-CHLOROPHYLL-PROTEIN COMPLEX (PerCP)
PRODUCT CODE:	PB40
LOT NUMBER:	295 093
FORMULATION:	Protein solution in 50 m*M* Tris-HCl (pH 7.5) and 15 m*M* sodium azide
STORAGE:	Store at 2-8°C in the dark. DO NOT FREEZE.

Concentration:

20.0 mg/ml[1] (20.0±0.5)

Spectrophotometric Properties:

Absorbance λ_{max} = 482 nm

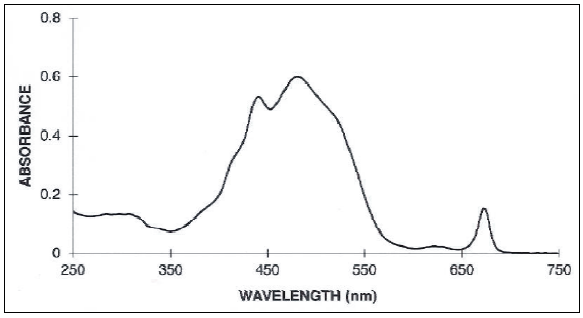
Emission λ_{max} = 676 nm (677±1)

A_{482}/A_{280} = 4.58 (>4.0)

NOTE: Numbers in parentheses are specification values.

1. Determined spectrophotometrically using extinction coefficient $E^{1\%}_{482}$ = 116.

Absorbance Spectrum (sample diluted):



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Notes on Specifications:

The ratio of absorbance at the absorbance maximum of Peridinin-Chlorophyll-Protein Complex (PerCP) to absorbance at 280 nm (A_{482}/A_{280}) is indicative of the purity of the preparation with respect to most forms of contaminating protein. Absorbance at 280 nm in these preparations is primarily due to aromatic amino acids, and this is roughly proportional to the overall concentration of protein in solution, including PerCP. Absorbance at the absorbance maximum reflects only the concentration of PerCP.

The fluorescence emission maximum of 677 ± 1 nm confirms the identity of the complex as an intact accessory pigment-chlorophyll-protein complex.