



## CERTIFICATE OF ANALYSIS

PRODUCT: PHYCOPRO™ PERIDININ-CHLOROPHYLL-PROTEIN COMPLEX (PerCP)

PRODUCT CODE: PB40

LOT NUMBER: 295 090

FORMULATION: Protein solution in 50 mM Tris-HCl (pH 7.5) and 15 mM sodium azide

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

### Concentration:

20.0 mg/ml<sup>1</sup> (20.0±0.5)

### Spectrophotometric Properties:

Absorbance  $\lambda_{\max}$  = 482 nm

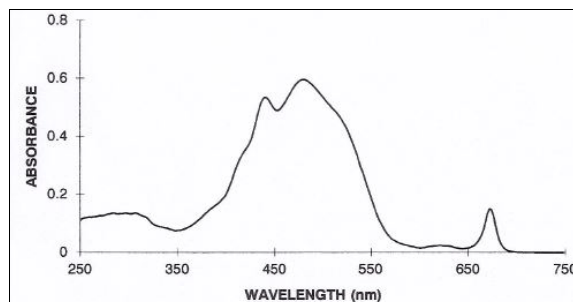
Emission  $\lambda_{\max}$  = 676 nm (677±1)

$A_{482}/A_{280}$  = 4.54 (>4.0)

NOTE: Numbers in parentheses are specification values.

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

### Absorbance Spectrum (sample diluted):



Authorized Signature

## 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  $677 \pm 1$  nm confirms the identity of the complex as an intact accessory pigment-chlorophyll-protein complex.