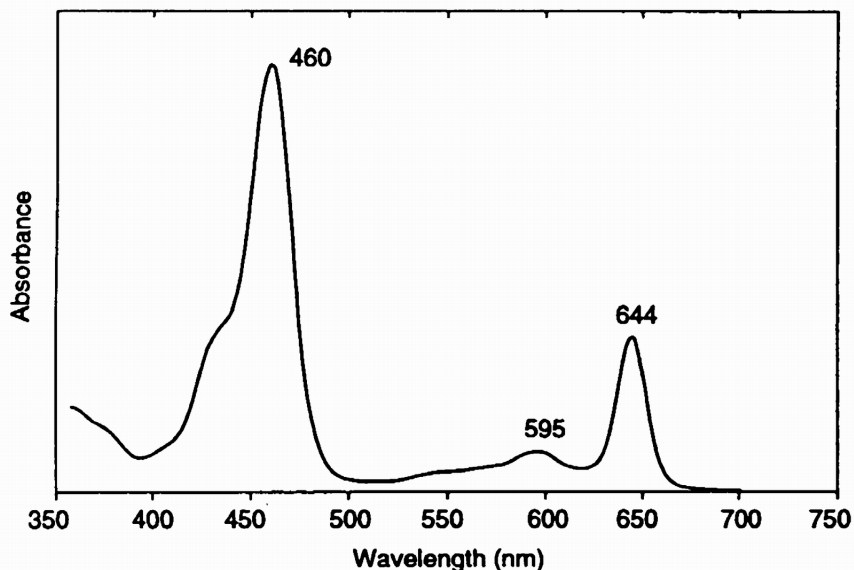


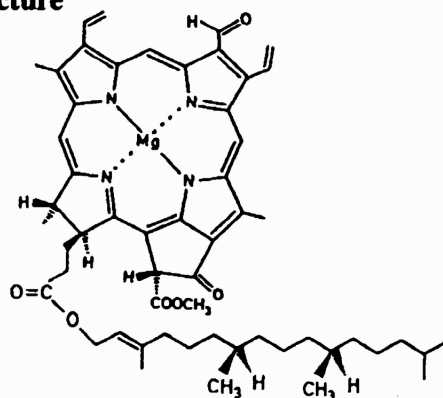
Divinyl chlorophyll *b*

HPLC peak 37*

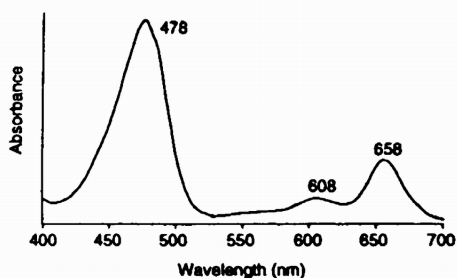
Standard spectrum in reference solvent: diethyl ether†



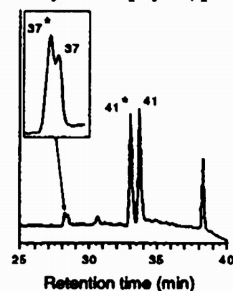
Molecular structure



Diode array spectrum in Repeta eluant



HPLC: Divinyl chlorophyll *b*, peak 37*†



† Goericke and Repeta (1992) HPLC RP-8 system

Divinyl chlorophyll *b*

Property

Data

Name:	(Trivial) (IUPAC)	Divinyl chlorophyll <i>b</i> 8-deethyl-8-vinyl chlorophyll <i>b</i> = 8 ¹ 8 ² -didehydro-chlorophyll <i>b</i>
SCOR abbreviation:		DV chl <i>b</i>
Occurrence:		<i>Prochlorococcus marinus</i> (Class Prochlorophyceae)
Colour:		Brown-green
Molecular formula:		C ₅₅ H ₆₈ N ₄ O ₆ Mg
Molecular weight:		905.48
Specific extinction coefficient:		Not determined
α (l g ⁻¹ cm ⁻¹)		
Molar extinction coefficient:		Assume identical to chlorophyll <i>b</i>
ϵ (l mol ⁻¹ cm ⁻¹)		

UV-vis spectra:

Solvent	Absorbance maxima (nm)			Band ratio*	Reference
Diethyl ether	460	595	644	2.78	Goericke & Repeta (1992)
Diethyl ether	462		648		Bazzaz (1981)
HPLC eluant	478	608	658	3.43	Repeta (unpub. data)

Fluorescence spectra:

Solvent	Excitation (nm)	Emission (nm)	Reference
No data available			

Alteration products:

8-deethyl-8-vinyl pheophytin *b*; easily bleached (Gieskes, 1991)

Culture from which SCOR data were obtained:

Culture of *Prochlorococcus* not available to SCOR WG 78

Additional reference(s):

Gieskes & Kraay (1987); Shioi & Beale (1987); Chisholm *et al.* (1988, 1992)