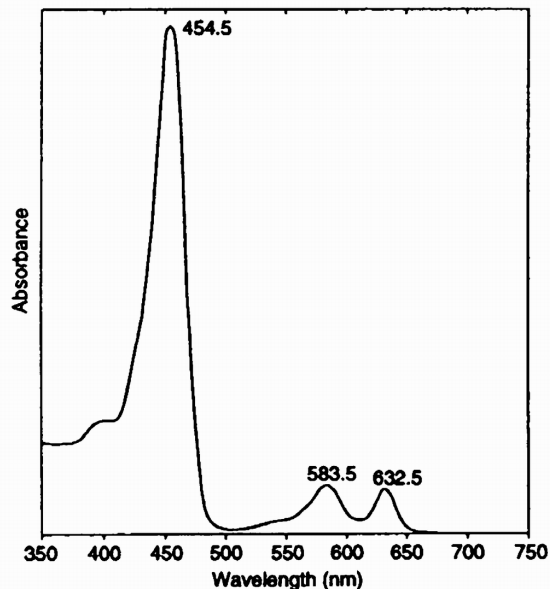


Phytylated Chlorophyll *c*-like

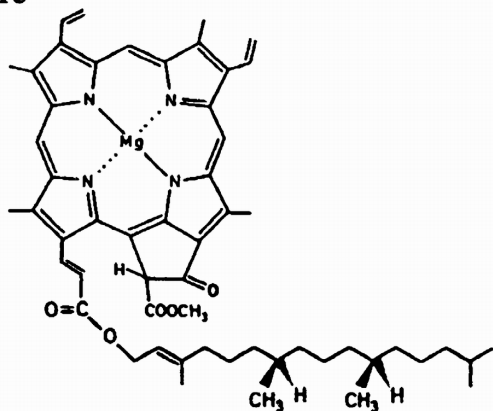
HPLC peak 41a

Standard spectrum in reference solvent: acetone (100%)



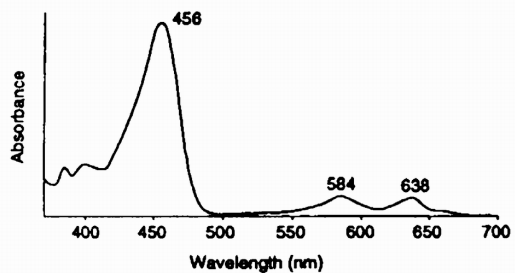
Data from *Emiliana huxleyi* (Nelson and Wakeham, 1989)

Molecular structure*

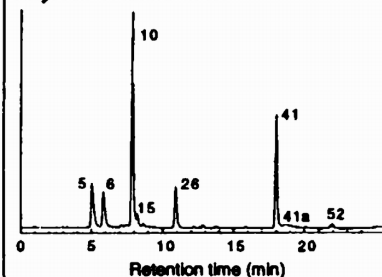


*Tentative structure only (Nelson and Wakeham, 1989)

Diode array spectrum in SCOR eluant



HPLC: Phytylated Chlorophyll *c*, peak 41a *Chrysochromulina minor*



Phytylated chlorophyll *c*-like Data

Property

Name: (Trivial)
(IUPAC)

Phytylated chlorophyll *c*-like pigment*

Not confirmed

*All information provisional until chemical structure confirmed

SCOR abbreviation:

Phytyl-chl *c*

Occurrence:

Emiliana huxleyi (Nelson & Wakeham, 1989)
Many prymnesiophytes (28 out of 50 strains tested; Jeffrey & Wright, 1994)

Colour:

Lightgreen

Molecular formula:

C₅₅H₆₆N₄O₅Mg

Molecular weight:

887.46 Molecular formula, molecular weight, and coefficient calculations assume phytylated chl *c*₂ ester

Specific extinction coefficient:
α (l g⁻¹ cm⁻¹)

25.6 (at 629 nm in 100% acetone +1% pyridine)
Calculated from ε chlorophyll *c*₂

Molar extinction coefficient:
ε (l mol⁻¹ cm⁻¹)

22.7 × 10³ (at 629 nm in 100% acetone + 1% pyridine); assumed equal to ε for chlorophyll *c*₂; Jeffrey (1972)

UV-vis spectra:

Solvent	Absorbance maxima (nm)	Band ratio*	Reference
100% Acetone	454.5 583.5 632.5	10.30	Nelson & Wakeham (1989)
HPLC Eluant	456 584 638		Jeffrey & Wright (1994)

Fluorescence spectra:

*Soret (blue maximum): red ratio

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

Alteration products:

None known

Culture from which SCOR data were obtained:

Emiliana huxleyi, *Chrysochromulina minor* (prymnesiophytes)

Additional reference(s):

Nelson & Wakeham (1989)