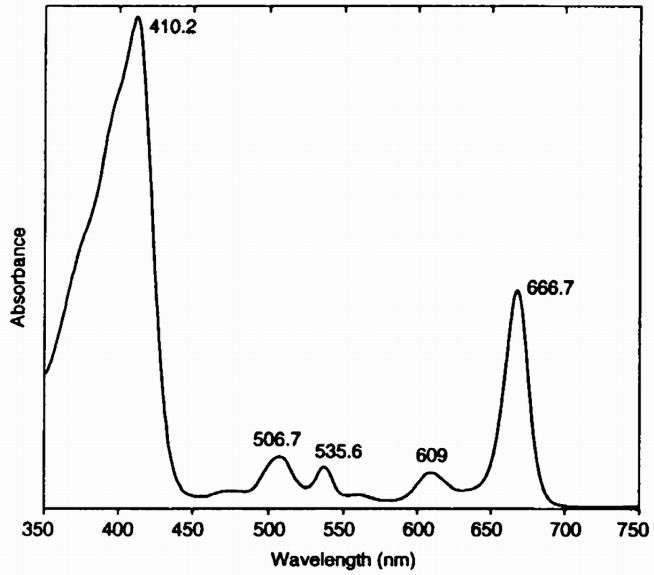
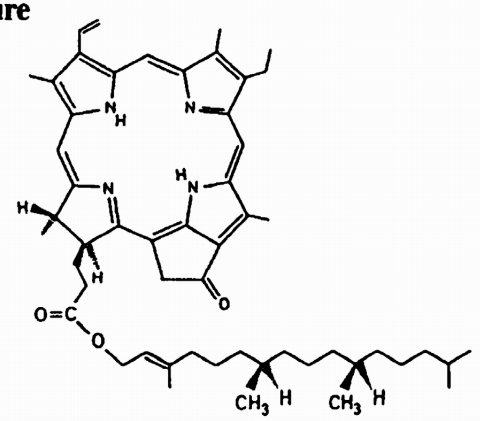
Pyropheophytin *a* — HPLC peak 55

Standard spectrum in reference solvent: acetone (100%)



Molecular structure

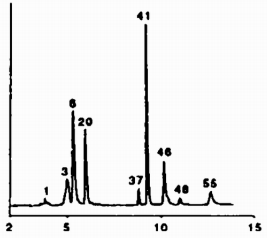


Diode array spectrum in SCOR eluant

No data available

HPLC*: Pyropheophytin *a*, peak 55

Mixture of standards



* Mantoura and Llewellyn (1983) system

Pyropheophytin *a*

Property		Data
Name:	(Trivial)	**Pyropheophytin *a***
	(IUPAC)	13^2-demethoxycarbonyl-pheophytin *a*
SCOR abbreviation:		Pyrophytin *a*
Occurrence:		Zooplankton faecal pellets, terrestrial detritus
Colour:		Grey
Molecular formula:		$C_{53}H_{72}N_4O_3$
Molecular weight:		813.17
Specific extinction coefficient: α (l g^{-1} cm^{-1})		60.29 (at 667 nm in diethyl ether) Pennington *et al.* (1964)
Molar extinction coefficient: ε (l mol^{-1} cm^{-1})		49.0×10^3 (at 667 nm in diethyl ether) Pennington *et al.* (1964)

UV-vis spectra:

Solvent	Absorbance maxima (nm)					Band ratio*	Reference
Diethyl ether	409.0				667.0	2.09	Pennington *et al.* (1964)
Acetone	410.2	506.7	535.6	609	666.7	2.28	SCOR WG 78 data

*Soret (blue maximum): red ratio

Fluorescence spectra:

Solvent	Excitation (nm)	Emission (nm)	Reference
100% Acetone	407	672	SCOR WG 78 data

Alteration products:	Unknown
Origin:	Sample donated (B. Keely)
Additional reference(s):	Pennington *et al.* (1964); Hynninen (1991)