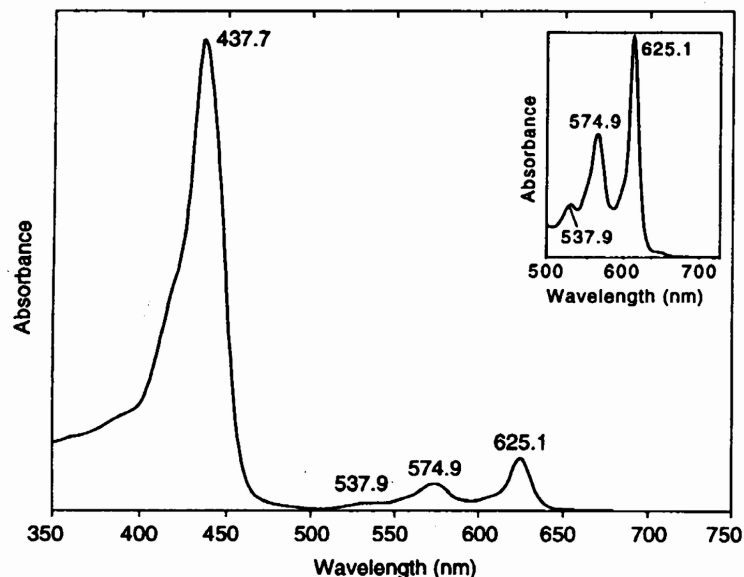
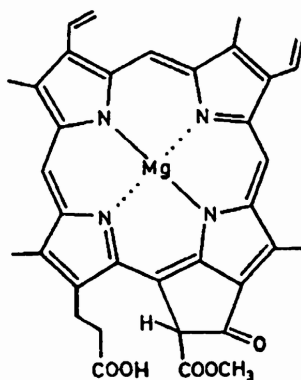


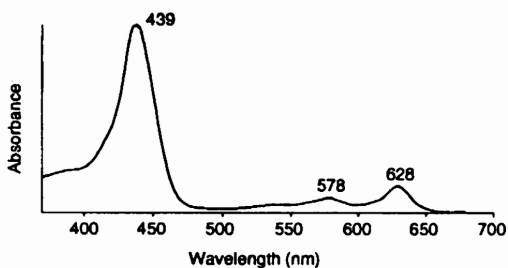
Standard spectrum in reference solvent: acetone (100%)



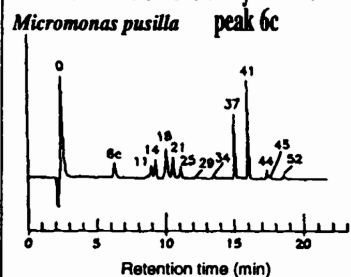
Molecular structure



Diode array spectrum in SCOR eluant



HPLC: Mg-2,4-divinyl pheophorphyrin *a*₅ monomethyl ester



Property Data

Name: (Trivial: Fischer nomenclature) **Mg-2,4-divinyl pheophorphyrin *a*₅ monomethyl ester**
 (Trivial: IUPAC) **Mg-3,8-divinyl phytylporphyrin-13²-methyl carboxylate**
 (IUPAC) **8¹,8²,17,18-tetradehydro-chlorophyllide *a* = 3¹,3²,8¹,8²-tetradehydro-13²-methoxycarbonyl-phytylporphyrinato-Mg(II); see Hynninen (1991)**

SCOR abbreviation: Mg DVP
Occurrence: Some prasinophytes; Ricketts (1966); Jeffrey (1989)

Colour: Light green on TLC; emerald green (concentrated solution)

Molecular formula: C₃₅H₃₀N₄O₅Mg

Molecular weight: 610.94

Specific extinction coefficient: Unknown; use 58.9 (at 623 nm in methanol) for the monovinyl derivative (Griffiths, 1991)
 α (l g⁻¹ cm⁻¹)

Molar extinction coefficient: Unknown; use 36x10³ (at 623 nm in methanol) for the monovinyl derivative (Griffiths, 1991)
 ϵ (l mol⁻¹ cm⁻¹)

UV-vis spectra:

Solvent	Absorbance maxima (nm)	Band ratio*	Reference
100% Acetone	437.7 574.9 625.1	9.33	SCOR WG 78 data
Diethyl ether	437.1 573.9 623.5	9.72	Jeffrey & Wright (1987)
HPLC Eluant	439 578 628	7.55	SCOR WG 78: Wright <i>et al.</i> (1991) method

Fluorescence spectra: *Soret (blue maximum): red ratio

Solvent	Excitation (nm)	Emission (nm)	Reference
Diethyl ether	440	627	Chereskin <i>et al.</i> (1983)

Alteration products: None known, but rapid bleaching can occur when handling

Culture from which SCOR data were obtained: *Micromonas pusilla* (CS-86) (prasinophyte)

Additional reference(s): Jeffrey (1989); Griffiths (1991)