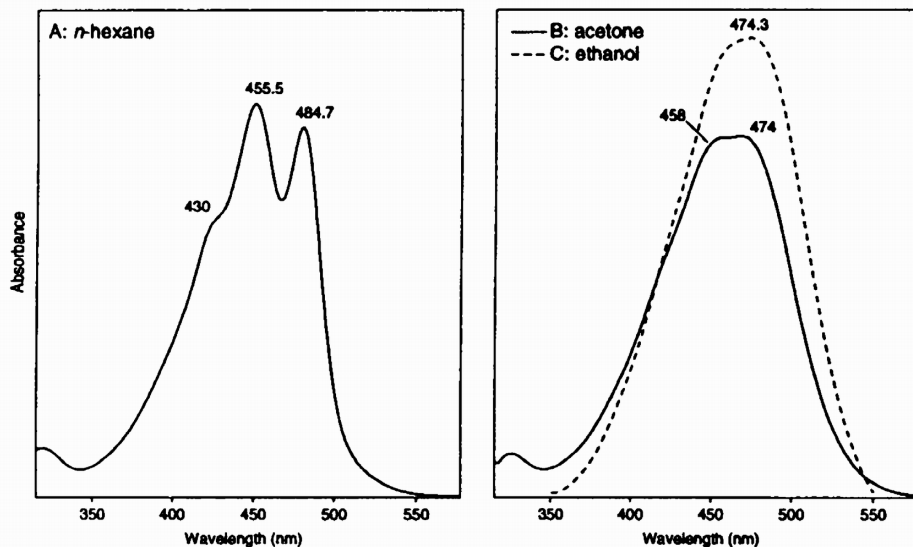
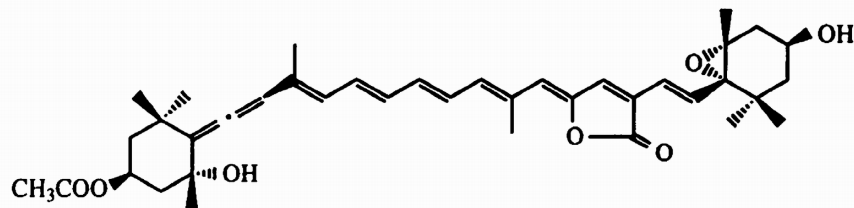


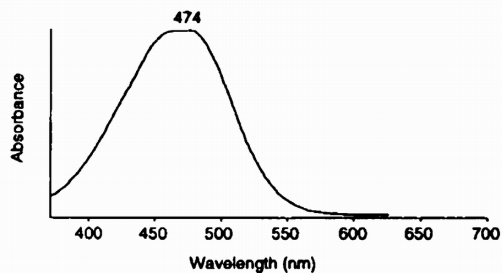
Standard spectrum in reference solvents



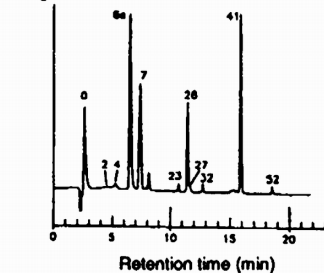
Molecular structure



Diode array spectrum in SCOR eluant



HPLC: Peridinin, peak 7

Amphidinium carterae

Property

Data

Name: (Trivial)
(IUPAC)

Peridinin
(3*S*,5*R*,6*S*,3'*S*,5'*R*,6'*R*)-5,6-Epoxy-3,3',5'-trihydroxy-6',7'-didehydro-5,6,5',6'-tetrahydro-10',11',20'-trinor- β , β -caroten-19,11-olide 3'-acetate

SCOR abbreviation:

Perid

Occurrence:

Photosynthetic dinoflagellates (major pigment), (except those containing endosymbionts of other algal classes)

Colour:

Brick red

Molecular formula:

 $C_{39}H_{50}O_7$

Molecular weight:

630.82

Specific extinction coefficient:

1340 (at 466 nm in acetone)

 $E_1^{1\%}$ (100 ml g^{-1} cm^{-1})

1325 (at 472 nm in ethanol)

1360 (at 469 nm in methanol)

Jeffrey & Haxo (1968)

Molar extinction coefficient:

 84.5×10^3 (at 466 nm in acetone) ϵ (l mol^{-1} cm^{-1}) 83.6×10^3 (at 472 nm in ethanol) 85.8×10^3 (at 469 nm in methanol)Calculated from $E_1^{1\%}$ above

UV-vis spectra:

Solvent	Maxima (nm)			Band ratio %III:II	Reference
	I	II	III		
Acetone		458	474	0	SCOR WG 78 data
Ethanol			474	0	SCOR WG 78 data
Ethanol			472	0	Jeffrey & Haxo (1968)
<i>n</i> -Hexane	(430)	455.5	484.7	75	SCOR WG 78 data
<i>n</i> -Hexane	(428)	454	484	85	Jeffrey & Haxo (1968)
Methanol			469	0	Jeffrey & Haxo (1968)
HPLC Eluant			474	0	SCOR WG 78: Wright <i>et al.</i> (1991) method

Alteration products:

Cis-isomers

Culture from which SCOR data were obtained:

Amphidinium carterae (dinoflagellate)

Additional reference(s):

Jeffrey & Haxo (1968); Strain *et al.* (1971); Johansen *et al.* (1974); Jeffrey *et al.* (1975)