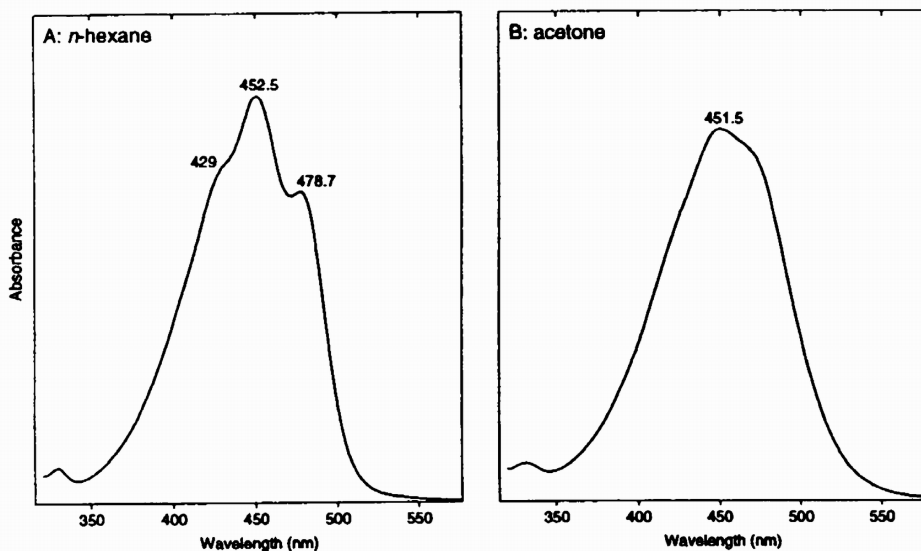
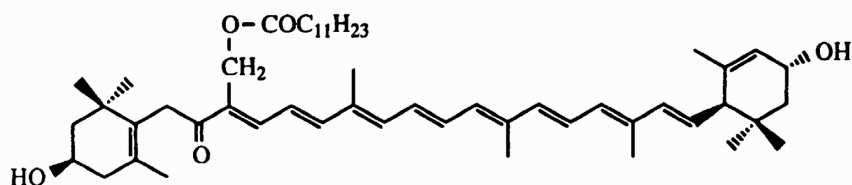


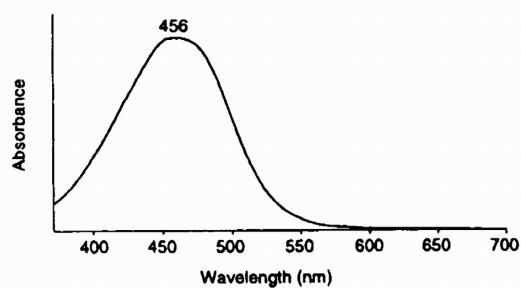
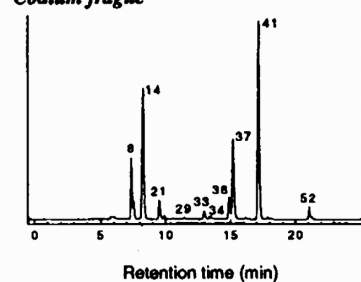
Standard spectrum in reference solvents



Molecular structure



Diode array spectrum in SCOR eluant

HPLC: Siphonein, peak 36
Codium fragile

Property

Data

Name:	(Trivial) (IUPAC)	Siphonein (3 <i>R</i> ,3' <i>R</i> ,6 <i>R</i>)-3,19,3'-Trihydroxy-7,8-dihydro- β , ϵ -caroten-8-one 19-laurate
SCOR abbreviation:		Siphn
Occurrence:		Major pigment in siphonous green seaweeds, green algae, some euglenophytes
Colour:		Salmon pink
Molecular formula:		C ₅₂ H ₇₈ O ₅
Molecular weight:		783.19
Specific extinction coefficient:		1920 (at 462 nm in ethanol) Calculated from ϵ below
$E_{1\text{ cm}}^{1\%}$ (100 ml g ⁻¹ cm ⁻¹)		
Molar extinction coefficient:		150 x 10 ³ (at 462 nm in ethanol) Derived from ϵ for siphonaxanthin
ϵ (l mol ⁻¹ cm ⁻¹)		

UV-vis spectra:

Solvent	Maxima (nm)			Band ratio %III:II	Reference
	I	II	III		
Acetone		452			SCOR WG78 data
Hexane	(429)	452.5	478.7	4	SCOR WG78 data
Petroleum ether		457	481		Jeffrey (1968b)
HPLC Eluant		456			SCOR WG 78: Wright <i>et al.</i> (1991) method

Alteration products:

Cis-isomers

Origin:

Codium fragile fronds (siphonous green seaweed from a natural habitat);
Micromonas pusilla (prasinophyte);
Wright *et al.* (1991)

Additional reference(s):

Fiksdahl *et al.* (1984a); Goodwin (1980)