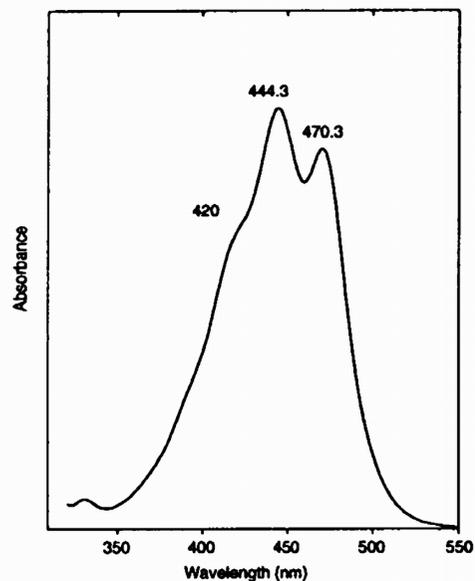


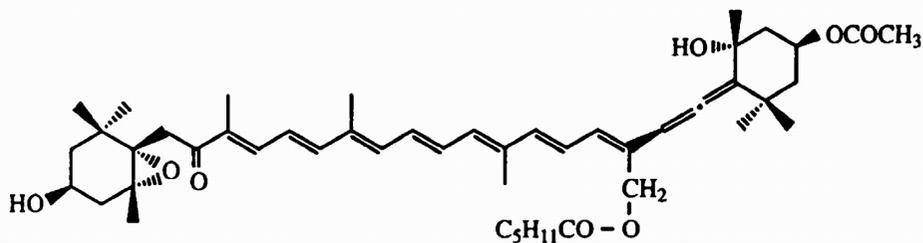
# 19'-Hexanoyloxyfucoxanthin

HPLC peak 15

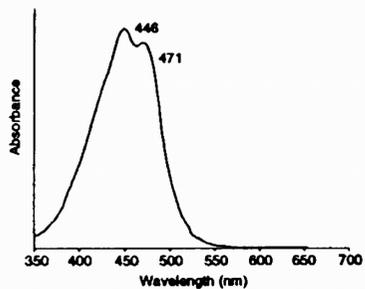
## Standard spectrum in reference solvent: acetone



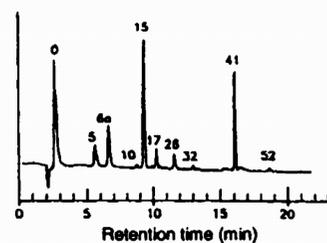
## Molecular structure



## Diode array spectrum in SCOR eluant



## HPLC: 19'-Hexanoyloxyfucoxanthin, peak 15 *Emiliania huxleyi*



# 19'-Hexanoyloxyfucoxanthin

## Property

## Data

<b>Name:</b>	(Trivial) (IUPAC)	<b>19'-Hexanoyloxyfucoxanthin</b> (3 <i>S</i> ,5 <i>R</i> ,6 <i>S</i> ,3' <i>S</i> ,5' <i>R</i> ,6' <i>S</i> )-5,6-Epoxy-3,3',5',19'-tetrahydroxy-6',7'-didehydro-5,6,7,8,5',6'-hexahydro-β,β-caroten-8-one 3'-acetate 19'-hexanoate
<b>SCOR abbreviation:</b>		Hex-fuco
<b>Occurrence:</b>		Major or minor pigment in several prymnesiophytes, some dinoflagellates
<b>Colour:</b>		Orange
<b>Molecular formula:</b>		C <sub>48</sub> H <sub>68</sub> O <sub>8</sub>
<b>Molecular weight:</b>		773.06
<b>Specific extinction coefficient:</b>		1300 (at 445 nm in ethanol) Haxo (1985); Calculated from Jensen (1966a) 1420 (at 445 nm in acetone) Calculated from ε for fucoxanthin; Haugan & Liaaen-Jensen (1989), see Preamble
<b>Molar extinction coefficient:</b>		109 x 10 <sup>3</sup> (at 445 nm in acetone) Assumed to be equal to ε for fucoxanthin, Haugan & Liaaen-Jensen (1989)

## UV-vis spectra:

Solvent	Maxima (nm)			Band ratio % III:II	Reference
	I	II	III		
Acetone	(420)	444.3	470.3	47	SCOR WG 78 data
Acetone		445	471	44	Wright & Jeffrey (1987)
<i>n</i> -Hexane	(423)	445	474	64	Bjørnland <i>et al.</i> (1988)
Ethanol		447	471	25	Wright & Jeffrey (1987)
Diethyl ether		444	470	45	Wright & Jeffrey (1987)
HPLC Eluant		447	470	22	SCOR W G 78: Mantoura & Llewellyn (1983) method
HPLC Eluant	418	446	471	34	SCOR WG 78: Wright <i>et al.</i> (1991) method

## Alteration products:

*Cis*-isomers

## Culture from which SCOR data were obtained:

*Emiliania huxleyi* (prymnesiophyte)

## Additional reference(s):

Arpin *et al.* (1976); Hertzberg *et al.* (1977);  
Bjørnland & Tangen (1979);  
Haxo (1985); Wright & Jeffrey (1987);  
Bjørnland & Liaaen-Jensen (1989);  
Jeffrey & Wright (1994)