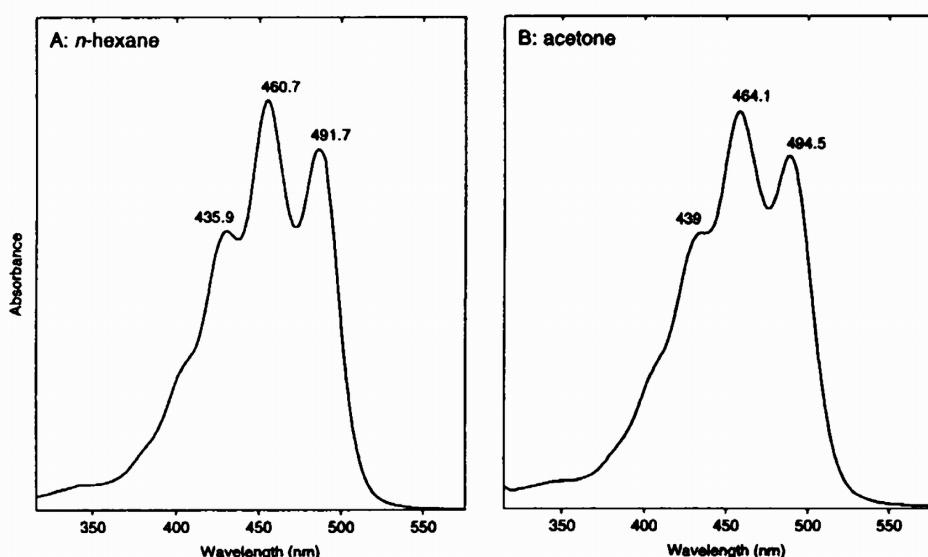


β, ψ -carotene

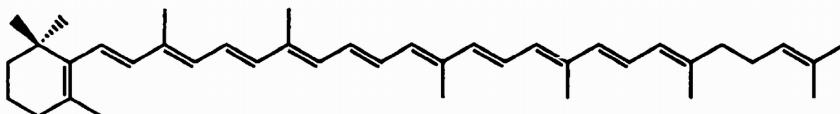
HPLC peak 49

β, ψ -Carotene

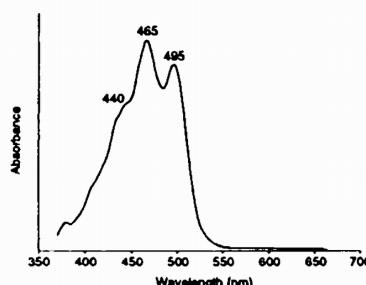
Standard spectrum in reference solvent



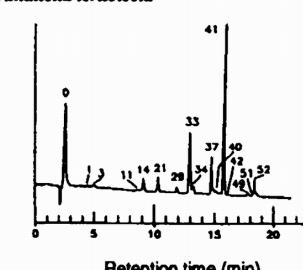
Molecular structure



Diode array spectrum in SCOR eluant



HPLC: β, ψ -carotene, peak 49 *Dunaliella tertiolecta*



Property

Data

Name:	(Trivial) (IUPAC)	γ -Carotene β, ψ -Carotene
SCOR abbreviation:	$\beta\psi$ -car	
Occurrence:		Minor or trace pigment in green algae, chromophyte algae
Colour:		Orange-red
Molecular formula:		C ₄₀ H ₅₆
Molecular weight:		536.88
Specific extinction coefficient: E _{1 cm} ^{1%} (100 ml g ⁻¹ cm ⁻¹)		3185 (at 459 nm in petroleum ether) Manchand <i>et al.</i> (1965) 2760 (at 462 nm in hexane) Bindl <i>et al.</i> (1970)
Molar extinction coefficient: ϵ (1 mol ⁻¹ cm ⁻¹)		171 × 10 ³ (at 459 nm in petroleum ether) 148 × 10 ³ (at 462 nm in hexane)
UV-vis spectra:		Calculated from E _{1 cm} ^{1%} above

Solvent Maxima (nm) Band ratio Reference

I II III %III:II

Acetone	439	464	494	55	SCOR WG 78 data
Acetone	(439)	461	491		Francis & Halfen (1972)
Hexane	436	461	492	59	SCOR WG 78 data
HPLC Eluant	(436)	462	490	32	SCOR WG 78: Mantoura & Llewellyn (1983) method
HPLC Eluant	(440)	465	495	50	SCOR WG 78: Wright <i>et al.</i> (1991) method

Alteration products:

Cis-isomers

Culture from which SCOR data were obtained:

Dunaliella tertiolecta (green flagellate)

Additional reference(s):

Goodwin (1980)