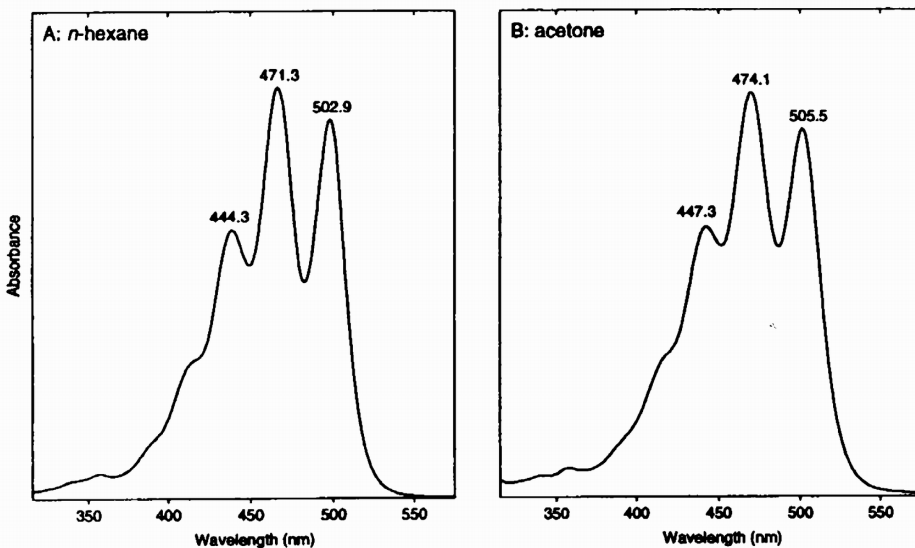
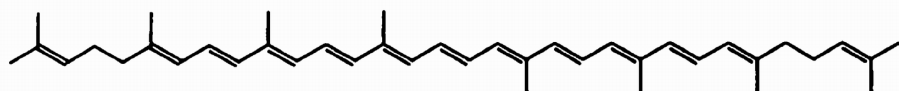


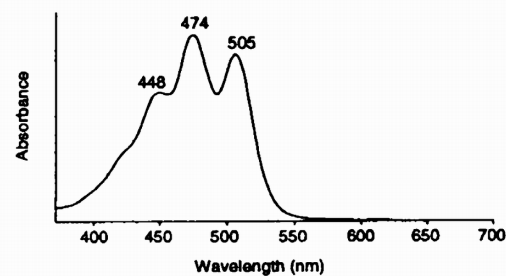
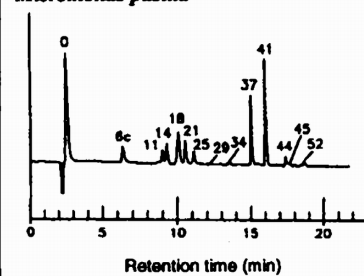
## Standard spectrum in reference solvents



## Molecular structure



## Diode array spectrum in SCOR eluant

HPLC: Lycopene, peak 45  
*Micromonas pusilla*

## Property

## Data

<b>Name:</b>	(Trivial) (IUPAC)	<b>Lycopene</b> $\psi,\psi$ -Carotene
<b>SCOR abbreviation:</b>		Lyco
<b>Occurrence:</b>		Minor pigment in prasinophytes, trace pigment in cyanophytes
<b>Colour:</b>		Red
<b>Molecular formula:</b>		$C_{40}H_{56}$
<b>Molecular weight:</b>		536.88
<b>Specific extinction coefficient:</b> $E_{1\%}^{1\text{cm}}$ (100 ml $g^{-1}$ $cm^{-1}$ )		3446 (at 474 nm in acetone) Aasen & Liaaen-Jensen (1966a) 3470 (at 472 nm in <i>n</i> -hexane) Zechmeister (1944)
<b>Molar extinction coefficient:</b> $\epsilon$ (1 $mol^{-1}$ $cm^{-1}$ )		$185 \times 10^3$ (at 474 nm in acetone) $186 \times 10^3$ (at 472 nm in <i>n</i> -hexane) Calculated from $E_{1\%}^{1\text{cm}}$ above

## UV-vis spectra:

Solvent	Maxima (nm)			Band ratio % III:II	Reference
	I	II	III		
Acetone	447	474	506	77	SCOR WG 78 data
Acetone	448	474	505		Hertzberg & Liaaen-Jensen (1967)
<i>n</i> -Hexane	444	471	503	83	SCOR WG 78 data
<i>n</i> -Hexane	448	473	504		Bindl <i>et al.</i> (1970)
Ethanol	446	472	503		Davies (1976)
HPLC Eluant	448	474	505	67	SCOR WG 78: Wright <i>et al.</i> (1991) method

## Alteration products:

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

**Additional reference(s):** Goodwin (1980); Krinsky *et al.* (1989)