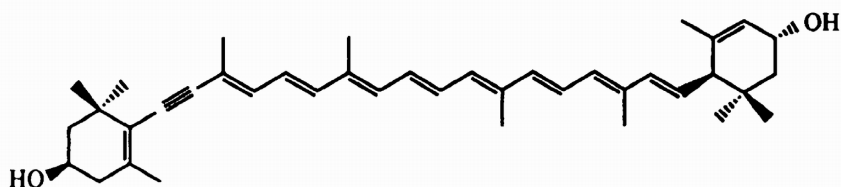


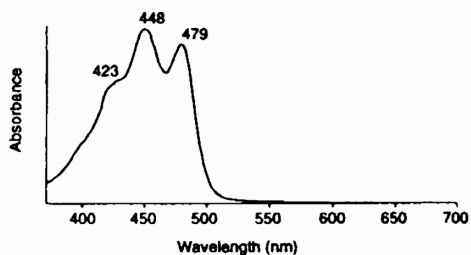
Standard spectrum in reference solvent

No data available

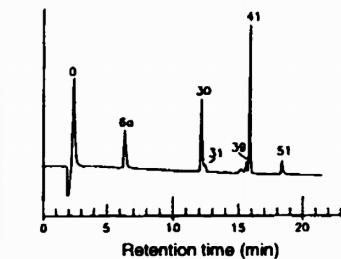
Molecular structure



Diode array spectrum in SCOR eluant



HPLC: Monadoxanthin, peak 31
Chroomonas salina



Property

Data

Name:	(Trivial) (IUPAC)	Monadoxanthin 7,8-Didehydro- β,ϵ -carotene-3,3'-diol
SCOR abbreviation:		Monado
Occurrence:		Minor pigment in cryptomonads
Colour:		Yellow
Molecular formula:		$C_{40}H_{54}O_2$
Molecular weight:		566.87
Specific extinction coefficient:		2500 (at 446 nm in diethyl ether) Not determined, use $E_{1\text{ cm}}^{1\%}$ for β,β -carotene; Davies (1976)
Molar extinction coefficient:		142×10^3 (at 446 nm in diethyl ether) ϵ ($l\text{ mol}^{-1}\text{ cm}^{-1}$) Calculated from $E_{1\text{ cm}}^{1\%}$ above

UV-vis spectra:

Solvent	Maxima (nm)			Band ratio % III:II	Reference
	I	II	III		
Diethyl ether	428	446	476	60	Pennington <i>et al.</i> (1985)
<i>n</i> -Hexane	422	445	475	72	Chapman (1966)
Benzene	430	456	487		Cheng <i>et al.</i> (1974)
HPLC Eluant	(423)	448	479	65	SCOR WG 78: Wright <i>et al.</i> (1991) method

Alteration products:	<i>Cis</i> -isomers
Culture from which SCOR data were obtained:	<i>Chroomonas salina</i> (cryptomonad)
Additional reference(s):	Cheng <i>et al.</i> (1974); Pennington <i>et al.</i> (1985)