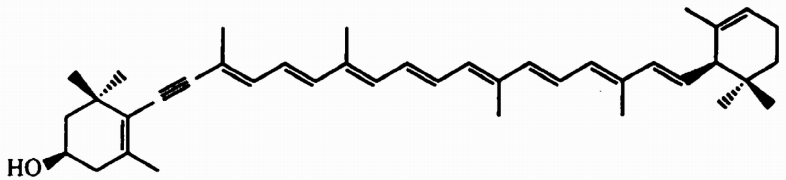
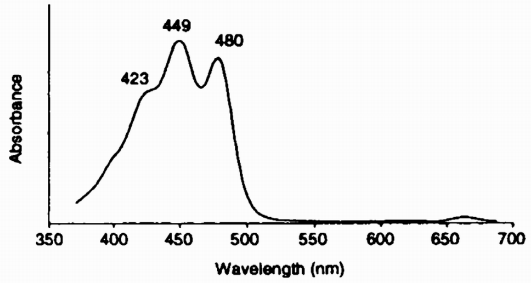
Standard spectrum in reference solvent

No data available

Molecular structure

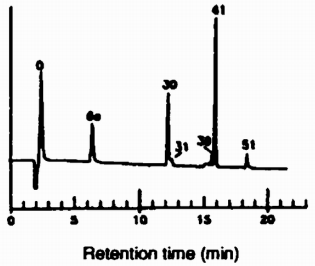


Diode array spectrum in SCOR eluant



HPLC: Crocoxanthin, peak 39

Chroomonas salina



Property	Data
Name: (Trivial)	**Crocoxanthin**
(IUPAC)	(3*R*,6'*R*)-7,8-Didehydro-β,ε-caroten-3-ol
SCOR abbreviation:	Croco
Occurrence:	Cryptomonads (minor carotenoid)
Colour:	Yellow
Molecular formula:	$C_{40}H_{54}O$
Molecular weight:	550.87
Specific extinction coefficient: $E^{1\%}_{1\,cm}$ (100 ml g^{-1} cm^{-1})	2500 (at 443 nm in ethanol) Not determined; use $E^{1\%}_{1\,cm}$ for β,β-carotene, Davies (1976)
Molar extinction coefficient: ε (l mol^{-1} cm^{-1})	138 x 10^3 (at 443 nm in ethanol) Calculated from $E^{1\%}_{1\,cm}$ above

UV-vis spectra:

Solvent	Maxima (nm) I	II	III	Band ratio %III:II	Reference
Ethanol	(421)	443	472	62	Hager & Stransky (1970c)
Hexane	422	445	475	69	Chapman (1966)
Diethyl ether	428	445	475	58	Pennington *et al.* (1985)
HPLC Eluant	423	449	480	61	SCOR WG 78: Wright *et al.* (1991) method

Alteration products:

Culture from which SCOR data were obtained:	*Chroomonas salina* (cryptomonad)
Additional reference(s):	Pennington *et al.* (1985)