

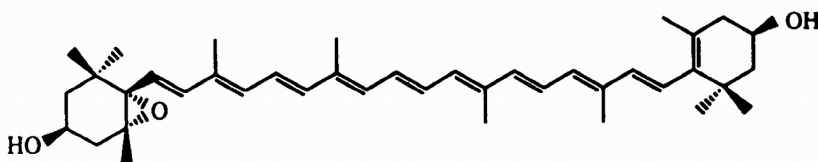
Antheraxanthin

HPLC peak 29

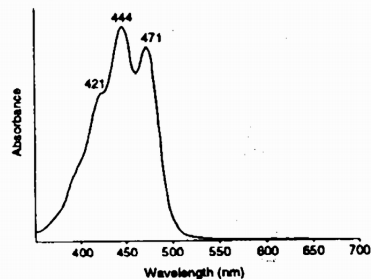
Standard spectrum in reference solvent:

No data available

Molecular structure

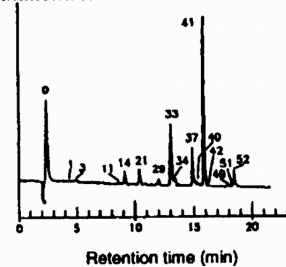


Diode array spectrum in Mantoura-Llewellyn eluant*



HPLC: Antheraxanthin, peak 29

Dunaliella tertiolecta



*Mantoura and Llewellyn (1983)

Antheraxanthin

Property

Data

Name:	(Trivial) (IUPAC)	Antheraxanthin (3 <i>S</i> ,5 <i>R</i> ,6 <i>S</i> ,3' <i>R</i>)-5,6-Epoxy-5,6-dihydro- β - β -carotene-3,3'-diol
SCOR abbreviation:		Anth
Occurrence:		Green algae, higher plants (minor pigment)
Colour:		Yellow
Molecular formula:		C ₄₀ H ₅₆ O ₃
Molecular weight:		584.88
Specific extinction coefficient:		2350 (at 446 nm in ethanol) Hager & Meyer-Bertenrath (1966)
Molar extinction coefficient:		137 x 10 ³ (at 446 nm in ethanol) Calculated from E _{1 cm} ^{1%} above

UV-vis spectra:

Solvent	Maxima (nm)			Band ratio % III:II	Reference
	I	II	III		
Ethanol	422	444	472	54	Stransky & Hager (1970a)
Ethanol	421	443	473		Jungalwala & Cama (1962)
Hexane	(421)	445	470		Valadon & Mummery (1967)
Petroleum ether	424	445	475	75	Bjørmland <i>et al.</i> (1984)
HPLC Eluant	(421)	444	471	57	SCOR WG 78: Mantoura & Llewellyn (1983) method

Alteration products: *Cis*-isomers; furanoids (mutatoxanthins)

Culture from which SCOR data were obtained: *Dunaliella tertiolecta* (green flagellate)

Additional reference(s): Hager & Meyer-Bertenrath (1966); Stransky & Hager (1970c)