

Supporting Information

S2 Table. Pigments and derivatives currently used as chemotaxonomic markers of phytoplankton strains, species and classes.

Algal lineage or pigment type	Ancillary pigments markers described (minor or variable occurrence)	Reference
Bolidophyceae	Chl c_3 -like pigment	(1)
<i>Chatonnella cf. verrucosa</i>	Moraxanthin	(2)
CHLORO-1	Astaxanthin; Monadoxanthin (unusual rare occurrence)	(3)
CHRYSO-1	Antheraxanthin	(4)
CRYPTO-1	Crocoxanthin; Monadoxanthin; α -carotene	(5)
Dinoflagellates Chloroplaste type-1	P-457; Peridinin; Peridinol; Dincoxanthin	(6)
Dinoflagellates Chloroplaste type-2	Keto-19'-hex-fuco-like ; Gyroxanthin diester; Keto-19'-but-fuco-like; 4-keto-19'-but-fuco; β, ϵ -carotene	(6)
Dinoflagellates Chloroplaste type-3	Gyroxanthin diester; β, ψ -carotene	(6)
Dinoflagellates Chloroplaste type-4	γ -carotene; Canthaxanthin (significant but not always present)	(6)
Dinoflagellates Chloroplaste type-5	Alloxanthin ; β, ϵ -carotene	(6)
Dinoflagellates Chloroplaste type 6	<i>trans</i> -neoxanthin; Unidentified Carotenoid Lc	(6)
EUGLENO-1	Eutreptiellanone	(7)
EUSTIG-1	Antheraxanthin; Canthaxanthin (significant but not always present); Vauchieraxanthin and esters	(8)
Haptophyte pigment type-5	4-k-fucoanthin	(9)
Haptophyte pigment type-7	Chl c_2 -MGDG [14/14] (significant but not always present)	(9)
MESOSTIG-1	Lycopene; <i>trans</i> -neoxanthin	(10)
Mesostigmatophyceae Streptophyta	Siphonaxanthin and esters	(11)
PELAGO-1	ϵ, ϵ -carotene	(12)
Pelagophytes	Gyroxanthin diester	(12)
PRASINO-3B	Dihydrolutein; Micromonal; Micromonol; Unidentified Car- <i>M. pusilla</i> ; Uriolide	(13)
Silicoflagellates	Chl <i>a</i> like	(14)
TREBOUXIO-1	Astaxanthin	(4)
XANTHO-1	Heteroxanthin	(15)

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