

**Supplemental File S1**  
**Chemical Composition of Culture Media**

**1. Walne's Medium (Guillard and Hargraves, 1993).**

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Stocks

(1) Nutrient solution	g /1000 mL
FeCl <sub>3</sub> .6H <sub>2</sub> O	1.3
MnCl <sub>2</sub> .4H <sub>2</sub> O	0.36
H <sub>3</sub> BO <sub>3</sub>	33.6
EDTA (dissodium salt)	45.0
NaH <sub>2</sub> PO <sub>4</sub> .2H <sub>2</sub> O	20.0
NaNO <sub>3</sub>	100.0

(2) TMS (trace metal solution)	g/100 mL
ZnCl <sub>2</sub>	2.1
CoCl <sub>2</sub> .6H <sub>2</sub> O	2.0
(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> .4H <sub>2</sub> O	0.9
CuSO <sub>4</sub> .5H <sub>2</sub> O	2.0

(3) Vitamin solution	g/100mL
Vitamin B <sub>12</sub> (Cyanocobalamin)	10.0
Vitamin B <sub>1</sub> (Thiamine.HCl)	10.0
Vitamin H (Biotin)	200.0

Final Medium	per 1000 mL
(1)	1.0 mL
(2)	0.001 mL
(3)	0.1 mL

2. L1 Medium (Guillard and Hargraves, 1993).

Stocks	
(1) Major element stock solutions	g /100 mL
NaNO <sub>3</sub>	7.5
NaH <sub>2</sub> PO <sub>4</sub> .H <sub>2</sub> O	0.5
Na <sub>2</sub> SiO <sub>3</sub> .9H <sub>2</sub> O*	3.0
H <sub>3</sub> BO <sub>3</sub>	33.6
(2) Trace metal stock solutions	g/100 mL
MnCl <sub>2</sub> .4H <sub>2</sub> O	18.0
ZnSO <sub>4</sub> .7H <sub>2</sub> O	2.2
CoCl <sub>2</sub> .6H <sub>2</sub> O	1.0
CuSO <sub>4</sub> .5H <sub>2</sub> O	0.245
Na <sub>2</sub> MoO <sub>4</sub> .H <sub>2</sub> O	1.99
H <sub>2</sub> SeO <sub>3</sub>	0.13
NiSO <sub>4</sub> .6H <sub>2</sub> O	0.27
Na <sub>3</sub> VO <sub>4</sub>	0.184
K <sub>2</sub> CrO <sub>4</sub>	0.194
(3) WTMS (working trace metal solution)	/1000mL
Na <sub>2</sub> EDTA.2H <sub>2</sub> O	4.36 g
FeCl <sub>3</sub> .6H <sub>2</sub> O	3.15 g
Each of the (2) stock solutions	1 mL
Final Medium	per 1000 mL
Each of the (1) stock solutions	1.0 mL
(3)	1.0 mL
Vitamin solution**	0.1 mL

\* di-Sodium-metasilicate is added to facilitate the growth of diatoms and silicoflagellates present in the sample

\*\* The vitamin solution used here is the same as the one used for Walne's Medium

**References**

Guillard, R.R.L.; Hargraves, P.E. *Stichochrysis immobilis* is a diatom, not a chrysophyte. *Phycologia* 1993, 32, 234-236, <https://doi.org/10.2216/i0031-8884-32-3-234.1>