

## f/2 + Si (Guillard's medium for diatoms)

<b>Stocks</b>	<b>per litre</b>
(1) NaNO <sub>3</sub>	75g
(2) NaH <sub>2</sub> PO <sub>4</sub> ·2H <sub>2</sub> O	5.65g
(3) Trace elements (chelated)	
NA <sub>2</sub> EDTA	4.16 g
FeCl <sub>3</sub> ·6H <sub>2</sub> O	3.15 g
CuSO <sub>4</sub> ·5H <sub>2</sub> O	0.01 g
ZnSO <sub>4</sub> ·7H <sub>2</sub> O	0.022 g
CoCl <sub>2</sub> ·6H <sub>2</sub> O	0.01 g
MnCl <sub>2</sub> ·4H <sub>2</sub> O	0.18 g
Na <sub>2</sub> MoO <sub>4</sub> ·2H <sub>2</sub> O	0.006 g
(4) Vitamin mix	
Cyanocobalamin (Vitamin B <sub>12</sub> )	0.0005 g
Thiamine HCl (Vitamin B <sub>1</sub> )	0.1 g
Biotin	0.0005 g
(5) Sodium metasilicate	
Na <sub>2</sub> SiO <sub>3</sub> ·9H <sub>2</sub> O	30.0g

  

<b>Medium</b>	<b>per litre</b>
NaNO <sub>3</sub>	1.0 ml
NaH <sub>2</sub> PO <sub>4</sub> ·2H <sub>2</sub> O	1.0 ml
Trace elements stock solution (1)	1.0 ml
Vitamin mix stock solution (2)	1.0 ml
Sodium metasilicate stock solution (3) *	1.0 ml

\* Add while stirring

Make up to 1 litre with filtered natural seawater. Adjust pH to 8.0 with 1M NaOH or HCl. Sterilise by autoclaving for 15 minutes at 15 psi and use when cooled to room temperature.

For heterotrophic growth (in the dark) add either:

- 1) 0.5g / litre yeast extract and  
5g / litre glucose
- 2) 0.5g / litre yeast extract and  
3g / litre sodium acetate