

## 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.

### Note

If you are making up f/2 + Si using stocks received from CCAP, refer to the labels on the stock tubes for volume per litre as it may differ from the above.