

# L1+

(Modified from: Guillard R. R. L. and Hargraves P. E., 1993. *Stichochrysis immobilis* is a diatom, not a chrysophyte. *Phycol.* 32: 234-236.)

Filter 1L of natural sea water with GF/F (0.45  $\mu\text{m}$ ) and autoclave for 15 min at 120°C.

After cooling, add the following compounds with a sterile filter (0.2  $\mu\text{m}$ ) to complete the media:

Minerals	Stock Solutions (g/L)	Quantity (mL Stock/L Media)	Molarity (mM)
NaNO <sub>3</sub>	150	0.5	0.8
NaH <sub>2</sub> PO <sub>4</sub> · 2H <sub>2</sub> O	6.9	0.725	0.03
Trace Element Solution	See recipe below	1	-
Vitamins3 Mix	See recipe below	1	-
NH <sub>4</sub> Cl	26.7	0.3	0.15

For solid medium use 7g/L of agarose. Sterilize the agarose separately in 550 ml of milliQ water. In this case the mineral solution is filled up to 400 ml.

## Trace Element Solution:

Trace metals	Stock Solution (g/L mQ)	Quantity used/L
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
MnCl <sub>2</sub> · 4H <sub>2</sub> O	178.1	1 mL
ZnSO <sub>4</sub> · 7H <sub>2</sub> O	2.3	10 mL
CoCl <sub>2</sub> · 6H <sub>2</sub> O	1.19	10 mL
CuSO <sub>4</sub> · 5H <sub>2</sub> O	2.5	1 mL
Na <sub>2</sub> MoO <sub>4</sub> · 2H <sub>2</sub> O	19.9	1 mL
Na <sub>2</sub> SeO <sub>3</sub> · 5H <sub>2</sub> O	2.63	1 mL
NiSO <sub>4</sub> · 6H <sub>2</sub> O	2.63	1 mL
V <sub>2</sub> O <sub>5</sub>	0.09	10 mL
K <sub>2</sub> CrO <sub>4</sub>	1.94	1 mL

## Vitamins 3 Mix:

Vitamins	Vitamins 3 mix (quantity/100mL)
Thiamine-HCl	10 mg
d-biotin*	100 $\mu\text{L}$ (from a stock of 5 mg in 10mL)
Vitamin B12	100 $\mu\text{L}$ (from a stock of 5 mg in 10mL)

\*Dissolve first in 0.1 mL 2M NaOH. Then add 9.9 mL of mQ water.