

S77 + vitamins

Marine diatoms

Medium	per litre
Major salts	
NaCl	16.00 g
MgSO ₄ .7H ₂ O	2.50 g
CaSO ₄ .2H ₂ O	0.50 g
KCl	0.40 g
Buffers	
Tris [tris(hydroxymethyl)aminomethane]	0.05 g
Glycine	0.25 g
Nutrients	
KNO ₃	0.10 g
K ₂ HPO ₄	0.01 g
Minor salts	
KBr	32.50 mg (Br = 22 mg)
SrCl ₂ .6H ₂ O	6.50 mg (Sr = 2.1 mg)
AlCl ₃ .6H ₂ O	250.00 µg (Al = 28 µg)
RbCl	100.00 µg (Rb = 71 µg)
LiCl.H ₂ O	50.00 µg (Li = 6.0 µg)
KI	25.00 µg (I = 19 µg)
Chelated trace metals	
EDTANa ₂	50.00 mg
FeSO ₄ .7H ₂ O	2.50 mg (Fe = 500 µg)
MnSO ₄ .4H ₂ O	203.00 µg (Mn = 50 µg)
ZnSO ₄ .7H ₂ O	22.00 µg (Zn = 5.0 µg)
CuSO ₄ .5H ₂ O	19.60 µg (Cu = 5.0 µg)
CoSO ₄ .7H ₂ O	2.38 µg (Co = 0.5 µg)
NaMoO ₄ .2H ₂ O	1.26 µg (Mo = 0.5 µg)
Vitamins	
Cyanocobalamin (Vitamin B ₁₂)	100.00 ng

Make up to 1 litre with distilled water. Adjust pH to 4.0 - 5.0.

Add NaSiO₃.5H₂O 0.10 g

while stirring continuously. Adjust pH to 8.0 when the silicate has dissolved.

Reference

Turner MF (1979) Nutrition of some marine microalgae with special reference to vitamin requirements and utilization of nitrogen and carbon sources. *J. Mar. Biol. Ass. UK.* **59**, 535-552.

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