

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

Stocks

	per 200 ml
(1) NaNO ₃	15 g
(2) NaH ₂ PO ₄ .2H ₂ O	1.13 g
(3) Trace elements (x10 concentration)	per 200 ml
NA ₂ EDTA	8.32 g
FeCl ₃ .6H ₂ O	6.30 g
CuSO ₄ .5H ₂ O	0.02 g
ZnSO ₄ .7H ₂ O	0.044 g
CoCl ₂ .6H ₂ O	0.02 g
MnCl ₂ .4H ₂ O	0.36 g
Na ₂ MoO ₄ .2H ₂ O	0.012 g
(4) Vitamin mix: First make primary stocks of Cyanocobalamin and Biotin.	
	per 100 ml
Cyanocobalamin (Vitamin B ₁₂)	0.1 g
Biotin	0.1 g
Dispense any excess primary stocks into 1 ml aliquots and freeze.	
For final vitamin mix stock solution:	per 200 ml
Thiamine HCl (Vitamin B ₁)	0.02 g
Cyanocobalamin (Vitamin B ₁₂)	1 ml
Biotin	1 ml
(5) Sodium metasilicate	per 200 ml
Na ₂ SiO ₃ .9H ₂ O	6 g
(Silicate can react with glass, ensure this stock solution is stored in plastic bottles.)	

Medium

	per litre
Stock solution 1	1.0 ml
Stock solution 2	1.0 ml
Stock solution 3 (Trace elements)	0.1 ml
Stock solution 4 (Vitamin mix)	1.0 ml
Stock solution 5	1.0 ml

Make up to 1 litre with filtered natural seawater. Adjust pH to **8.0** with 1M NaOH or 1M HCl prior to autoclaving. For agar add 15g per litre Bacteriological Agar. Autoclave at 15 psi for 15 minutes.

Reviewed: 7th August 2020

Created on: 05 Nov 2019	CCAP (Culture Collection of Algae and Protozoa), SAMS Ltd, Scottish Marine Institute, Oban, Argyll, PA37 1QA, UK Tel: +44 (0)1631 559000 Fax: +44 (0)1631 559001 Email: ccap@sams.ac.uk Web: www.ccap.ac.uk	Page: 1 of 1
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