

SFM + Si + Se

Components and Final Concentration in Culture Medium	Stock Solution	Addition per Litre of Culture Medium
1. HEPES (1.00 mM)	238.10 g / l dH ₂ O	1.0 ml
2. Ca(NO ₃) ₂ x 4 H ₂ O (0.21 mM)	100.00 g / l dH ₂ O	0.5 ml
3. MgSO ₄ x 7 H ₂ O (0.203 mM)	20.00 g / l dH ₂ O	2.5 ml
4. K ₂ HPO ₄ x 3 H ₂ O (13.20 μM)	5.00 g / l dH ₂ O	0.6 ml
NaNO ₃ (0.35 mM)	50.00 g / l dH ₂ O	
Na ₂ CO ₃ (0.19 mM)	32.00 g / l dH ₂ O	
5. H ₃ BO ₃ (16 μM)	1.00 g / l dH ₂ O	1 ml
6. Vitamin Solution		1 ml
Vitamin B12 (0.15 nM)	0.20 mg / l dH ₂ O	
Biotin (4.10 nM)	1.00 mg / l dH ₂ O	
Thiamine-HCl (0.30 μM)	100.00 mg / l dH ₂ O	
Niacinamide (0.80 nM)	0.10 mg / l dH ₂ O	
pH of the Vitamin Solution should be around pH 7		
7. Trace Metals		1 ml
7.1. Preparation of Trace Metal Solution		
Na ₂ EDTA x 2 H ₂ O : 4.36 g		
FeCl ₃ x 6 H ₂ O : 3.15 g		
Dissolve in 1000 ml dH ₂ O, then add 1 ml of Primary Trace Metals each (see below).		
Primary Trace Metals are stored frozen as 1 ml aliquots.		
7.2. Primary Trace Metals		
7.2.1. K ₂ CrO ₄	0.194 g / 100 ml dH ₂ O	
7.2.2. CoCl ₂ x 6 H ₂ O	1.00 g / 100 ml dH ₂ O	
7.2.3. CuSO ₄ x 5 H ₂ O	0.25 g / 100 ml dH ₂ O	
7.2.4. MnCl ₂ x 4 H ₂ O	18.00 g / 100 ml dH ₂ O	
7.2.5. Na ₂ MoO ₄ x 2 H ₂ O	1.89 g / 100 ml dH ₂ O	
7.2.6. NiSO ₄ x 6 H ₂ O	0.27 g / 100 ml dH ₂ O	
7.2.7. H ₂ SeO ₃	0.13 g / 100 ml dH ₂ O	
7.2.8. Na ₃ VO ₄	0.184 g / 100 ml dH ₂ O	
7.2.9. ZnSO ₄ x 7 H ₂ O	2.20 g / 100 ml dH ₂ O	
8. Na ₂ SiO ₃ x 9 H ₂ O (0.50 mM)	28.42 g / l dH ₂ O	5 ml
9. Na ₂ SeO ₃ x 5 H ₂ O	160 mg / l dH ₂ O	50 μl

adjust the pH to 7 and autoclave