

MHY (modified *Hydrodictyon* medium)

Stocks

(1) MHY Stock (10x):	per litre
KNO ₃	0.25 g
Ca(NO ₃) ₂ ·4H ₂ O	1.00 g
KH ₂ PO ₄	0.25 g
K ₂ CO ₃	0.345 g
MgSO ₄ ·7H ₂ O	0.25 g
Autoclave at 15 psi for 15 minutes.	

(2) Trace elements (PIV):	per litre
Ensure elements are added in the following sequence:	
Na ₂ EDTA	0.75 g
FeCl ₃ ·6H ₂ O	0.097 g
MnCl ₂ ·4H ₂ O	0.041 g
ZnCl ₂	0.005 g
CoCl ₂ ·6H ₂ O	0.002 g
Na ₂ MoO ₄ ·2H ₂ O	0.004 g
Once elements are dissolved autoclave at 15 psi for 15 minutes.	

(3) Soil Extract (See SE2 Recipe)	per 100 ml
(4) Vitamin B ₁ (Thiamine hydrochloride)	0.12 g
Filter sterile	
(5) Vitamin B ₁₂ (Cyanocobalamin)	0.1 g
Take 1 ml of this solution and add 99 ml deionised water. Filter sterile.	

Medium	per litre
Stock solution 1 (Mix before use)	100 ml
Stock solution 2 (Trace elements)	6 ml
Stock solution 3 (SE2)	30 ml
Stock solutions 4 – 5	1 ml each

Make up to 1 litre with deionised water. Adjust pH to **6.8** with 1M NaOH or 1M HCl prior to autoclaving. Autoclave at 15 psi for 15 minutes.

Reference

Bischoff, H. W. & Bold, H. C. 1963. Phycological Studies IV. Some soil algae from Enchanted Rock and related algal species. U. Texas Pub. No. 6318. – adapted for CCAP

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