

JM:SE

JM (Jaworski's Medium)

Freshwater algae

Stocks	per 200 ml
(1) Ca(NO ₃) ₂ ·4H ₂ O	4.0 g
(2) KH ₂ PO ₄	2.48 g
(3) MgSO ₄ ·7H ₂ O	10.0 g
(4) NaHCO ₃	3.18 g
(5) FeNa-EDTA	0.45 g
Na ₂ EDTA	0.45 g
(6) H ₃ BO ₃	0.496 g
MnCl ₂ ·4H ₂ O	0.278 g
(NH ₄) ₆ Mo ₇ O ₂₄ ·4H ₂ O	0.20 g
(7) Cyanocobalamin	0.008 g
Thiamine HCl	0.008 g
Biotin	0.008 g
(8) NaNO ₃	16.0 g
(9) Na ₂ HPO ₄ ·12H ₂ O	7.2 g
(10) Soil Extract 2 (See SE2 recipe)	

Medium	per litre
Stock solutions 1 - 9	0.7 ml each
Stock solution 10 (SE2)	300 ml

This recipe is a 7:3 mixture of JM and SE2. Make up to 1 litre with deionised water. For agar, add 15.0 g per litre of Bacteriological Agar. Autoclave at 15 psi for 15 minutes.

Reference

Jaworski, G.H.M.; Talling, J.F.; Heaney, S.I. (1981). The influence of carbon dioxide-depletion on growth and sinking rate of two planktonic diatoms in culture. *British Phycological Journal*, 16(4), 395–410. – adapted for CCAP

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