

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) EDTAFeNa	0.45 g
EDTANa ₂	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 (SE2)-See overleaf for 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 deionized water. For agar, add 15.0 g per litre of Bacteriological Agar (Oxoid L11)*. Autoclave at 15 psi for 15 minutes.

Supply

* Unipath Ltd, Wade Road, Basingstoke, Hants, RG24 0PW, UK

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	2 Pages
----------------------------	--	---------

SE2 (Soil Extract 2)

Freshwater and terrestrial protozoa

Preparing the soil

Site selection for a good soil is very important and for most purposes a soil from undisturbed deciduous woodland is best. Sites to avoid are those showing obvious signs of man's activity and particular care should be taken to avoid areas where fertilizers, crop sprays or other toxic chemicals may have been used.

A rich loam with good crumb structure should be sought. Stones, roots and larger invertebrates should be removed during an initial sieving through a 1 cm mesh. The sieved soil should be spread to air dry and handpicked for smaller invertebrates and roots. It should be turned periodically and picked over again. When dry sieve through a finer mesh (2-4 mm) and store in an airtight container away from light and heat.

Medium

Soil is prepared as above. Air-dried soil and twice its volume of supernatant distilled water are autoclaved together at 15 psi for 2 hours and left to cool. The supernatant is then decanted and then distributed to containers in volumes suitable for making up batches of media. The aliquots and their containers are autoclaved for an appropriate length of time (e.g. 1 litre or less for 15 minutes) and are then kept in a cool place (e.g. a refrigerator) until required.

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	2 Pages
----------------------------	---	---------