

ASWP (Artificial Seawater for Protozoa)

Marine protozoa

Stock	per litre
(1) NaNO ₃	5.625 g
Na ₂ HPO ₄	0.225 g
K ₂ HPO ₄	0.188 g
Medium	per litre
"Ultramarine Synthetica" sea salts *	33.6 g
Tricine	0.5 g
Stock solution (1)	10.0 ml
Soil extract (SE2 - see recipe below)	50.0 ml

Make up to 1 litre with deionized water and adjust pH to 7.6 - 7.8 with 1M NaOH or HCl. Autoclave at 15 psi for 15 minutes.

Supply

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SE2 (Soil Extract2)

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 hand picked for smaller invertebrates and roots. It should be turned periodically and picked over again. When dry it may be sieved through a finer mesh (2-4 mm) or stored as it is prior to use.

Medium

Soil is prepared as above. 105 g of air-dried sieved soil and 660 ml of deionized water are placed in a 1 litre bottle and autoclaved once at 15 psi for 15 minutes, then again after 24 hours. The contents of the bottle are left to settle (usually for at least a week) and then the supernatant is decanted and filtered. The final pH should be 7.0 - 8.0.