

ABM (Acidic Bold-Basal Medium with Vitamins; modified)

Medium

Dissolve 250 mg $(\text{NH}_4)_2\text{SO}_4$ in 800 ml distilled water and add the following:

Stock solutions in g / 1000 ml water	for 1 litre final medium
1) 25.0 g NaNO_3	30.0 ml
2) 2.5 g $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$	10.0 ml
3) 7.5 g $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	10.0 ml
4) 7.5 g $\text{K}_2\text{HPO}_4 \cdot 3\text{H}_2\text{O}$	10.0 ml
5) 17.5 g KH_2PO_4	10.0 ml
6) 2.5 g NaCl	10.0 ml
7) trace element solution (see below)	6.0 ml
8) vitamin B_1 (see below)	1.0 ml
9) vitamin B_{12} (see below)	1.0 ml

Make up to 1 litre with distilled water and adjust the pH to 3.0 with HCl. Autoclave at 15 psi for 15 minutes.

Trace element solution (7)

Add to 1000 ml of distilled water 0.75 g Na_2EDTA and the minerals in exactly the following sequence:

$\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$	97.0 mg
$\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$	41.0 mg
$\text{ZnCl}_2 \cdot 6\text{H}_2\text{O}$	5.0 mg
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	2.0 mg
$\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	4.0 mg

Vitamin B_1 (8)

0.12 g Thiaminhydrochloride in 100 ml distilled water. Filter sterile.

Vitamin B_{12} (9)

0.1 g Cyanocobalamin in 100 ml distilled water, take 1 ml of this solution and add 99 ml distilled water. Filter sterile.

Reference

Pollio A, Cennamo P, Ciniglia C, De Stefano M, Pinto G & Huss VAR (2005) *Chlamydomonas pitschmannii* Ettl, a Little Known Species from Thermoacidic Environments. Protist **156**, 287-302.