

ATCC medium: 1142 Allen and Arnon medium plus nitrate

Solution A (see below)	25.0 ml
Solution B (see below)	6.25 ml
KNO ₃	0.253 g
NaNO ₃	0.212 g
Purified agar (if necessary)	10.0 g
Distilled water.....	969.0 ml

Combine ingredients, with the exception of Solution B, and autoclave at 121C for 15 min. Prepare Solution B as instructed below, and aseptically add to basal medium.

Solution A:

4% MgSO ₄ . 7H ₂ O	500.0 ml
1.2% CaCl ₂ . 2H ₂ O	500.0 ml
3.8% NaCl.....	500.0 ml
Microelements Stock Solution (see below)	500.0 ml

Microelements Stock Solution:

A & A FeEDTA Solution (see below)	160.0 ml
MnCl ₂ . 4H ₂ O	360.0 mg
MoO ₃	36.0 mg
ZnSO ₄ . 7H ₂ O	44.0 mg
CuSO ₄ . 5H ₂ O	15.8 mg
H ₃ BO ₃	572.0 mg
NH ₄ VO ₃	4.6 mg
CoCl ₂ . 6H ₂ O	8.0 mg
Distilled water.....	1090.0 ml

A & A FeEDTA Solution:

1. Dissolve 5.2 g KOH in 186 ml distilled water.
 2. Add 20.4 g EDTA . 2H₂O.
 3. Dissolve 13.7 g FeSO₄ . 7H₂O in 364 ml distilled water.
 4. Mix solutions 2 and 3.
 5. Bubble Millipore-filtered air through solution until color changes.
(may take minutes to hours.)
- Final pH of FeEDTA solution approximately 3.5.

Solution B:

K ₂ HPO ₄	28.0 g
Distilled water.....	500.0 ml

Autoclave at 121C for 15 minutes. Add aseptically to basal medium.