

ATCC medium: 1123 Mineral salts medium

Na ₂ HPO ₄	4.0 g
KH ₂ PO ₄	1.5 g
NH ₄ Cl	1.0 g
MgSO ₄ . 7H ₂ O	0.2 g
Ferric ammonium citrate.....	5.0 mg
Modified Hoagland Trace Element Solution (see below)...	1.0 ml
Distilled water.....	1.0 L

Adjust pH after steam sterilization to 7.0.

Modified Hoagland Trace Element Solution:

AlCl ₃	1.0 g
KI.....	1.0 g
KBr.....	0.5 g
LiCl.....	0.5 g
MnCl ₂ . 4H ₂ O	7.0 g
H ₃ BO ₃	11.0 g
ZnCl ₂	1.0 g
CuCl ₂	1.0 g
NiCl ₂	1.0 g
CoCl ₂	1.0 g
SnCl ₂ . 2H ₂ O	0.5 g
BaCl ₂	0.5 g
Na ₂ MoO ₄	0.5 g
NaVO ₃ . H ₂ O	0.1 g
Na ₂ SeO ₃	0.5 g

Dissolve each salt in distilled water before mixing. Adjust the pH of each solution to below 7.0. Adjust the final pH to 3-4. The total final volume is 3.6 L. The flaky yellow precipitate which forms after mixing transforms after a few days into a very fine white precipitate. Mix the solution thoroughly before use.