

ATCC medium: 528 *Thiobacillus* medium

NH₄Cl1.0 g
MgCl₂0.5 g
MgSO₄0.3 g
KH₂PO₄0.4 g
K₂HPO₄0.6 g
FeCl₃0.02 g
Na₂S₂O₃.....10.0 g
Bromthymol blue.....0.03 g
Heavy Metal Solution (see below).....30.0 ml
Yeast extract.....5.0 g
Distilled water to.....1.0 L

Adjust pH to 6.8.

Autoclave at 121C for 15 minutes.

Heavy Metal Solution:

EDTA (should be dissolved first)..... 1.5 g
Modified Hoagland Trace Element Solution (see below)... 6.0 ml
FeSO₄ . 7H₂O 0.2 g
ZnSO₄ . 7H₂O 0.1 g
MnCl₂ . 4H₂O 0.02 g
Distilled water..... 1.0 L

Modified Hoagland Trace Element Solution:

AlCl₃1.0 g
KI.....1.0 g
KBr.....0.5 g
LiCl.....0.5 g
MnCl₂ . 4H₂O7.0 g
H₃BO₃11.0 g
ZnCl₂1.0 g
CuCl₂1.0 g
NiCl₂1.0 g
CoCl₂1.0 g
SnCl₂ . 2H₂O0.5 g
BaCl₂0.5 g
Na₂MoO₄0.5 g
NaVO₃ . H₂O0.1 g
Na₂SeO₃0.5 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 is formed after

mixing transforms after a few days into a very fine white precipitate.
Mix the solution thoroughly before use.