

ATCC medium: 1891 *Thiomicrospira thyasirae* medium

Solution A:

Na₂HPO₄ · 2H₂O.....7.9 g
KH₂HPO₄1.5 g
Distilled water.....100.0 ml

Adjust to pH of 7.6. Autoclave at 121C for 15 minutes.

Solution B:

NaCl.....25.1 g
NH₄Cl0.4 g
MgSO₄ · 7H₂O0.1 g
Na₂S₂O₃.....5.0 g
Trace Metals (see below).....10.0 ml
Phenol red.....3.0 mg
Agar (if necessary).....15.0 g
Distilled water.....900.0 ml

Adjust pH to 7.3-7.6. Autoclave at 121C for 15 minutes.

Complete Medium:

Cool Solutions A and B to 50-55C; combine. Aseptically add

Wolfe's Vitamin Solution (see below)....10.0 ml

Adjust final pH to 7.3-7.6.

Trace Metals:

EDTA.....50.0 g
ZnSO₄ · 7H₂O11.0 g
CaCl₂ · 2H₂O7.34 g
MnCl₂ · 4H₂O2.5 g
CoCl₂ · 6H₂O0.5 g
(NH₄)₂MoO₇0.5 g
FeSO₄ · 7H₂O5.0 g
CuSO₄ · 5H₂O0.2 g
NaOH.....11.0 g
Distilled water.....1.0 L

Adjust to pH 6.0 with H₂SO₄.

Wolfe's Vitamin Solution:

Available from ATCC as a sterile ready-to-use liquid (Vitamin Supplement, catalog no. MD-VS).

Biotin.....	2.0 mg
Folic acid.....	2.0 mg
Pyridoxine hydrochloride.....	10.0 mg
Thiamine . HCl.....	5.0 mg
Riboflavin.....	5.0 mg
Nicotinic acid.....	5.0 mg
Calcium D-(+)-pantothenate.....	5.0 mg
Vitamin B12.....	0.1 mg
p-Aminobenzoic acid.....	5.0 mg
Thioctic acid.....	5.0 mg
Distilled water.....	1.0 L