

ATCC medium: 1690 *Desulfomonile tiedjei* medium

PIPES, K₂ salt1.5 g
Na₂SO₄1.42 g
Yeast extract.....1.0 g
Mineral Solution (see below).....20.0 ml
Trace Metal Solution (see below).....10.0 ml
Distilled water.....970.0 ml

Adjust to pH 7.3 with HCl.

Add:

NaHCO₃3.0 g
0.1% Resazurin.....1.0 ml

Boil under 80% N₂, 20% CO₂; dispense and seal under same gas phase.
Replace headspace with same gas phase at 1 atm over pressure. Autoclave
at 121C and cool. Add aseptically:

Vitamin Solution (see below).....10.0 ml
Sodium pyruvate.....40.0 mM
50 mM Na₂S₂O₄ (freshly prepared).....10.0 ml

Mineral Solution:

NaCl.....40.0 g
NH₄Cl50.0 g
KCl.....5.0 g
KH₂PO₄5.0 g
MgCl₂ . 6H₂O8.3 g
CaCl₂ . 2H₂O1.0 g
Distilled water.....1.0 L

Trace Metal Solution:

Nitrilotriacetic acid.....2.0 g
MnSO₄ . H₂O1.0 g
Fe(NH₄)₂(SO₄)₂ . 6H₂O0.8 g
CoCl₂ . 6H₂O0.2 g
ZnSO₄ . 7H₂O0.2 g
CuCl₂ . 2H₂O0.02 g
NiCl₂ . 6H₂O0.02 g
Na₂MoO₄ . 2H₂O.....0.02 g
Na₂SeO₄0.02 g
Na₂WO₄0.02 g
Distilled water.....1.0 L

Add nitrilotriacetic acid to water and adjust to pH 6.0 to solubilize
prior to addition of remaining components.

Vitamin Solution:

Pyridoxine hydrochloride.....	5.0 mg
Riboflavin.....	5.0 mg
Calcium D-(+)-pantothenate.....	5.0 mg
p-Aminobenzoate.....	5.0 mg
Thioctic acid (in 0.1 N NaOH).....	5.0 mg
Nicotinamide.....	50.0 mg
Biotin.....	5.0 mg
Folic acid.....	5.0 mg
Cyanocobalamin.....	5.0 mg
Hemin (in 0.1 N NaOH).....	5.0 mg
1,4-Naphthoquinone (in 0.1 N NaOH).....	20.0 mg
Distilled water.....	1.0 L