

ATCC medium: 2044 Acetone medium

ATCC Medium 1778 (see below) with 5 g/L sodium pyruvate, 0.58 g/L acetone, and 3.4 g/L KNO₃ (each separately sterilized)

ATCC Medium 1778:

Solution A:

Na₂SO₄3.0 g
KH₂PO₄0.2 g
NH₄Cl0.3 g
NaCl7.0 g
MgCl₂ . 6H₂O1.3 g
KCl0.5 g
CaCl₂ . 2H₂O0.15 g
Resazurin1.0 mg
Distilled water870.0 ml

Solution B:

Trace Elements Solution SL-10 (see below)1.0 ml.

Solution C:

NaHCO₃5.0 g
Distilled water100.0 ml

Solution D:

Sodium acetate . 3H₂O2.5 g
Distilled water10.0 ml

Solution E:

Wolfe's Vitamin Solution (see below)10.0 ml

Solution F:

Na₂S . 9H₂O0.4 g
Distilled water10.0 ml

Directions for complete medium:

Boil Solution A for 3 minutes, cool to room temperature under 80% N₂, 20% CO₂ to reach a pH below 6. Autoclave anaerobically under the same gas phase. Autoclave Solutions B, D, E and F separately under nitrogen. Filter-sterilize Solution C and flush with 80% N₂, 20% CO₂ to remove oxygen. Add Solutions B through F to sterile, cooled Solution A in the sequence indicated. Tube complete medium anaerobically under 80% N₂, 20% CO₂. Final pH 7.1 - 7.4.

Trace Elements Solution SL-10:

HCl (25%).....	10.0 ml
FeCl ₂ . 4H ₂ O	1.5 g
ZnCl ₂	70.0 mg
MnCl ₂ . 4H ₂ O	100.0 mg
H ₃ BO ₃	6.0 mg
CoCl ₂ . 6H ₂ O	190.0 mg
CuCl ₂ . 2H ₂ O	2.0 mg
NiCl ₂ . 6H ₂ O	24.0 mg
Na ₂ MoO ₄ . 2H ₂ O.....	36.0 mg
Distilled water.....	990.0 ml

Dissolve FeCl₂ in the HCl, dilute with water, add and dissolve the other salts; adjust pH to 6.0 with NaOH, and fill to 1.0 L with distilled water.

Wolfe's Vitamins:

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

Folic acid.....	2.0 mg
Pyridoxine hydrochloride....	10.0 mg
Riboflavin.....	5.0 mg
Biotin.....	2.0 mg
Thiamine.....	5.0 mg
Nicotinic acid.....	5.0 mg
Pantothenic acid.....	5.0 mg
Vitamin B12.....	0.1 mg
p-Aminobenzoic acid.....	5.0 mg
Thioctic acid.....	5.0 mg
Distilled water.....	1.0 L