

ATCC medium: 2188 Modified VWN medium

Solution A:

KH ₂ PO ₄	0.2 g
NH ₄ Cl	0.25 g
NaCl.....	1.0 g
MgCl ₂ . 6H ₂ O	0.4 g
KCl.....	0.5 g
CaCl ₂ . 2H ₂ O	0.15 g
Resazurin.....	0.5 mg
Distilled water.....	940.0 ml

SL-10 Trace Element Solution (see below).....	1.0 ml
Wolfe's Vitamin Solution (see below).....	10.0 ml
Selenite/Tungstate Solution (see below).....	10.0 ml
Solution E (see below)	50.0 ml
Solution F (see below)	
Solution G (see below)	

Prepare Solution A anaerobically under 80% N₂, 20% CO₂. Autoclave at 121C for 15 minutes. Allow to cool under gas. Prepare and filter-sterilize anaerobic stock solutions of other solutions separately, then add them in order given to Solution A.

Adjust final pH to 7.2-7.4 if necessary.

SL-10 Trace Element Solution:

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 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

Selenite/Tungstate Solution:

NaOH.....	0.5 g
Na ₂ SeO ₃ . 5H ₂ O.....	3.0 mg
Na ₂ WO ₄ . 2H ₂ O.....	4.0 mg
Distilled water.....	100.0 ml

Solution E:

NaHCO₃ (5% w/v) solution in water

Solution F:

Use 2.5 g/L taurine as substrate (from anaerobic, 6.25% (v/v) stock solution)

Solution G:

Na ₂ S . 9H ₂ O	0.3 g
Distilled water.....	10.0 ml