

ATCC Medium: 2491 Geothermobacter ehrlichii Medium

NaCl.....	19.0 g
MgCl ₂ ·6H ₂ O.....	9.0 g
MgSO ₄ ·7H ₂ O.....	0.15 g
CaCl ₂ ·2H ₂ O.....	0.3 g
KCl.....	0.5 g
KH ₂ PO ₄	0.42 g
(NH ₄) ₂ SO ₄	0.10 g
NaBr.....	0.05 g
SrCl ₂ ·6H ₂ O.....	0.02 g
KNO ₃	1.01 g
Trace Element Solution SL-10 (<i>see below</i>).....	1.0 ml
Selenite-tungstate Solution (<i>see below</i>).....	1.0 ml
Wolfe's Vitamin Solution (<i>see below</i>).....	10.0 ml
Yeast extract.....	0.10 g
DL-malic acid.....	1.34 g
NaHCO ₃	1.7 g
Cysteine-HCl·H ₂ O.....	0.05 g
Resazurin.....	0.5 mg
DI Water.....	1000 ml

Dissolve ingredients (except bicarbonate, cysteine, vitamins and organic substrates), boil medium for 3 min., then cool to room temperature under 80% N₂ + 20% CO₂ gas mixture. Dispense under same gas atmosphere in culture vessels and autoclave. Add vitamins, yeast extract, malic acid and cysteine from sterile, anaerobic stock solutions prepared under N₂ and bicarbonate from a sterile, anaerobic stock solution prepared under 80% N₂ and 20% CO₂. The final pH of the medium should be 6.2.

Trace element solution SL-10

HCl (25%; 7.7 M).....	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
DI Water.....	990.0 ml

First dissolve FeCl₂ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 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
DI Water.....	1000 ml

Wolfe's Vitamin Solution

(ATCC Vitamin Supplement, catalog no. MD-VS can be substituted).

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 B ₁₂	0.1 mg
<i>p</i> -Aminobenzoic acid.....	5.0 mg
Thioctic acid.....	5.0 mg
DI Water.....	1000 ml