

ATCC medium: 1538 *Thermoproteus* medium

Solution A:

(NH ₄) ₂ SO ₄	0.264 g
FeSO ₄ . 7H ₂ O	0.556 g
MgSO ₄ . 7H ₂ O	0.492 g
CaSO ₄ . 2H ₂ O	0.344 g
KH ₂ PO ₄	0.014 g
Trace Elements (see below).....	10.0 ml
Glucose.....	10.0 g
Yeast extract.....	0.2 g
Resazurin.....	1.0 mg
Distilled water.....	490.0 ml

Filter-sterilize Solution A immediately after preparation.

Solution B:

Sulfur.....	10.0 g
Distilled water.....	450.0 ml

Autoclave at 100C for 30 minutes on 3 consecutive days.

Solution C:

Na ₂ S . 9H ₂ O	850.0 mg
Distilled water.....	50.0 ml

Autoclave at 121C for 15 minutes. Combine Solutions A, B and C aseptically and equilibrate in an atmosphere of 97% N₂, 3% H₂. Adjust medium for a final pH 4.8-5.6 with H₂SO₄. Store completed medium under 97% N₂, 3% H₂.

Trace Elements:

MnCl ₂ . 4H ₂ O	180.0 mg
Na ₂ B ₄ O ₇ . 10H ₂ O	450.0 mg
ZnSO ₄ . 7H ₂ O	22.0 mg
CuCl ₂ . 2H ₂ O	5.0 mg
Na ₂ MoO ₄ . 2H ₂ O.....	3.6 mg
VO ₂ SO ₄ . 5H ₂ O	3.6 mg
CoSO ₄ . 7H ₂ O	1.2 mg
Distilled water.....	1.0 L

Adjust trace element solution to pH 3.0 with H₂SO₄ to retard precipitation.