ATCC medium: 1920 *Desulfurella* medium (DSM 480)


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NH₄Cl .........................................0.33 g
CaCl₂ . 2H₂O ..................................0.33 g
MgCl₂ . 6H₂O ..................................0.33 g
KCl...........................................0.33 g
KH₂PO₄ ........................................0.33 g
Trace Elements Solution SL-10 (see below)......1.0 ml
Wolfe's Vitamin Solution (see below)..........10.0 ml
Yeast extract.................................0.1 g
Sodium acetate................................5.0 g
Sulfur, powder................................10.0 g
NaHCO₃ .......................................2.0 g
Resazurin.....................................1.0 mg
Na₂S . 9H₂O ..................................0.5 g
Distilled water...............................1.0 L
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Prepare medium (without bicarbonate, vitamins and sodium sulfide)
anaerobically under 80% N_2, 20% CO_2. Adjust to pH 5.9 before
sterilization. Sterilize medium by heating for 1 hour at 90-100C on 3
consecutive days. Before use, add to the medium 40 ml/L of 5% sterile
anaerobic $NaHCO_3$ solution, filter-sterilized vitamins and 10 ml/L of a
5% sterile anaerobic sodium sulfide solution. Complete medium has final
pH 6.8 - 7.0.

Trace Elements Solution SL-10:
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HCl (25%)....................10.0 ml
FeCl₂ . 4H₂O .................1.5 g
ZnCl₂ .......................70.0 mg
MnCl₂ . 4H₂O ................100.0 mg
H₃BO₃ .........................6.0 mg
CoCl₂ . 6H₂O ...............190.0 mg
CuCl₂ . 2H₂O .................2.0 mg
NiCl₂ . 6H₂O ................24.0 mg
Na₂MoO₄ . 2H₂O...............36.0 mg
Distilled water...........990.0 ml
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Dissolve $FeCl_2$ in the HCl, dilute with water, add and dissolve the other
salts, adjust pH to 6.0 with NaOH, and fill up to 1.0 L.

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