

**ATCC medium: 2037 Spirochete-thermophile medium (modified DSM 509)**

NaCl.....	4.0 g
MgCl <sub>2</sub> . 6H <sub>2</sub> O .....	0.8 g
KCl.....	0.5 g
NH <sub>4</sub> Cl .....	0.3 g
KH <sub>2</sub> PO <sub>4</sub> .....	0.2 g
CaCl <sub>2</sub> . 2H <sub>2</sub> O .....	30.0 mg
Resazurin.....	1.0 mg
Trace Element Solution SL-10 (see below).....	1.0 ml
Selenite-Tungstate Solution (see below).....	1.0 ml
Soluble starch.....	1.0 g
Wolfe's Vitamin Solution (see below).....	20.0 ml
NaHC <sub>3</sub> .....	2.5 g
Na <sub>2</sub> S . 9H <sub>2</sub> O .....	0.2 g
Distilled water.....	980.0 ml

Add and dissolve ingredients through vitamins in distilled water. Heat to boiling and cool under 80% N<sub>2</sub>, 20% CO<sub>2</sub>. Add sodium bicarbonate and continue to equilibrate medium under same gas phase for 10 minutes longer. Dispense medium anaerobically using same gas phase. Autoclave at 121C for 15 minutes. Add sodium sulfide from an anaerobically prepared, autoclaved stock solution under N<sub>2</sub> to a final concentration of 0.03%. Final pH 6.9 - 7.0.

*Trace Elements Solution SL-10:*

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

Dissolve FeCl<sub>2</sub> 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.

*Selenite/Tungstate Solution:*

NaOH.....	0.5 g
Na <sub>2</sub> SeO <sub>3</sub> . 5H <sub>2</sub> O.....	3.0 mg
Na <sub>2</sub> WO <sub>4</sub> . 2H <sub>2</sub> O.....	4.0 mg
Distilled water.....	1.0 L

*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