

**ATCC medium: 1937 Modified DSM medium 503 with xylan**

*Solution A:*

KH<sub>2</sub>PO<sub>4</sub> .....0.2 g  
NH<sub>4</sub>Cl .....0.25 g  
NaCl .....1.0 g  
MgCl<sub>2</sub> . 6H<sub>2</sub>O .....0.4 g  
KCl .....0.5 g  
CaCl<sub>2</sub> . 2H<sub>2</sub>O .....0.15 g  
Xylan .....2.0 g  
Modified Wolfe's Minerals (see below)...10.0 ml  
Resazurin .....0.5 mg  
Distilled water .....940.0 ml

Prepare basal medium anaerobically under 80% N<sub>2</sub>, 20% CO<sub>2</sub>. Aseptically add the following sterile stock solutions to the cooled, sterile basal medium. Adjust medium for final pH 7.3 +/- 0.1.

*Solution B:*

Wolfe's Vitamin Solution (see below)....10.0 ml

Autoclave for 15 minutes at 121C under 100% N<sub>2</sub>.

*Solution C:*

5% NaHCO<sub>3</sub> .....50.0 ml

Autoclave for 15 minutes at 121C under 100% N<sub>2</sub>.

*Solution D:*

Na<sub>2</sub>S . 9H<sub>2</sub>O .....0.3 g  
Distilled water .....10.0 ml

Autoclave for 15 minutes at 121C under 100% N<sub>2</sub>.

Modified Wolfe's Minerals:

Na<sub>2</sub>SeO<sub>3</sub> .....10.0 mg  
NiCl<sub>2</sub> . 6H<sub>2</sub>O .....10.0 mg  
Na<sub>2</sub>WO<sub>4</sub> . 2H<sub>2</sub>O .....10.0 mg  
Wolfe's Mineral Solution (see below) .....1.0 L

*Wolfe's Mineral Solution:*

Available from ATCC as a sterile ready-to-use liquid (Trace Mineral Supplement, catalog no. MD-TMS.)

Nitrilotriacetic acid.....	1.5 g
MgSO <sub>4</sub> . 7H <sub>2</sub> O .....	3.0 g
MnSO <sub>4</sub> . H <sub>2</sub> O .....	0.5 g
NaCl.....	1.0 g
FeSO <sub>4</sub> . 7H <sub>2</sub> O .....	0.1 g
CoCl <sub>2</sub> . 6H <sub>2</sub> O .....	0.1 g
CaCl <sub>2</sub> .....	0.1 g
ZnSO <sub>4</sub> . 7H <sub>2</sub> O .....	0.1 g
CuSO <sub>4</sub> . 5H <sub>2</sub> O .....	0.01 g
AlK(SO <sub>4</sub> ) <sub>2</sub> . 12H <sub>2</sub> O.....	0.01 g
H <sub>3</sub> BO <sub>3</sub> .....	0.01 g
Na <sub>2</sub> MoO <sub>4</sub> . 2H <sub>2</sub> O.....	0.01 g
Distilled water.....	1.0 L

Add nitrilotriacetic acid to approximately 500 ml of water and adjust to pH 6.5 with KOH to dissolve the compound. Bring volume to 1.0 L with remaining water and add remaining compounds one at a time.

*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