ATCC medium: 2086 Modified MS medium

Sodium sulfate	1.42 g
Sodium lactate syrup (85%)	2.12 g
Yeast extract	2.0 g
Trypticase Peptone (BD 211921)	2.0 g
NH_4Cl	1.0 g
$MgCl_2 \cdot 6H_2O$	1.0 g
$K_2HPO_4 \cdot 3H_2O$	0.4 g
$CaCl_2 \cdot 2H_2O$	80.0 mg
Modified Wolfe's Minerals (see below)	10.0 ml
$NaHCO_3$	4.0 g
2-Mercaptoethanesulfonic acid	0.2 g
$Na_2S \cdot 9H_2O$	0.25 g
Distilled water	1.0 L

Mix ingredients through minerals in distilled water. Boil and cool under an atmosphere of 80% N_2, 20% CO_2. Add sodium bicarbonate and 2-mercaptoethanesulfonic acid. Adjust medium to pH 7.2. Dispense medium anaerobically under the same gas phase. Autoclave at 121C for 15 minutes. Just prior to inoculation, add sodium sulfide aseptically from an anaerobic, sterile stock solution to the final concentration indicated.

Modified Wolfe's Minerals:

Na_2SeO_3	10.0 mg
$NiCl_2 \cdot 6H_2O$	10.0 mg
$Na_2WO_4 \cdot 2H_2O$	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
$MgSO_4 \cdot 7H_2O$	3.0 g
$MnSO_4 \cdot H_2O$	0.5 g
NaCl	1.0 g
$FeSO_4 \cdot 7H_2O$	0.1 g
$CoCl_2 \cdot 6H_2O$	0.1 g
$CaCl_2$	0.1 g
$ZnSO_4 \cdot 7H_2O$	0.1 g
$CuSO_4 \cdot 5H_2O$	0.01 g
$AlK(SO_4)_2 \cdot 12H_2O$	0.01 g
H_3BO_3	0.01 g
$Na_2MoO_4 \cdot 2H_2O$	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.