ATCC medium: 2401 *Geobacter bremensis* medium

NH_4Cl .....1.5 g
Na_2HPO_4 .....0.6 g
KCl.....0.1 g
Sodium acetate.....0.82g
Wolfe's Trace Minerals Solution (see below)...10.0 ml
Wolfe's Vitamin Supplement (see below).....10.0 ml
Selenite-Tungstate Solution (see below).....1.0 ml
Resazurin.....0.5 mg
$NaHCO_3$ Solution (see below) .....50.0 ml
Distilled water.....980.0 ml

Dissolve ingredients (except $NaHCO_3$ Solution), bring to a boil, cool to room temperature while gassing the medium with 80% N_2, 20% CO_2. After autoclaving, cool under the same gas mixture. Add $NaHCO_3$ Solution and fumarate from an anaerobic filter-sterilized stock solution (16% w/v sodium fumarate; 0.5 ml/10 ml medium). Adjust to pH 6.8 +/- 0.2.

Wolfe's Trace Mineral Solution:
Available from ATCC as a sterile ready-to-use liquid (Trace Mineral Supplement, catalog no. MD-TMS).
Nitrilotriacetic acid.....1.5 g
$MgSO_4$. $7H_2O$ .....3.0 g
$MnSO_4$. H_2O .....0.5 g
NaCl.....1.0 g
$FeSO_4$. $7H_2O$ .....0.1 g
$CoCl_2$. $6H_2O$ .....0.1 g
$CaCl_2$ .....0.1 g
$ZnSO_4$. $7H_2O$ .....0.1 g
$CuSO_4$. $5H_2O$ .....0.01 g
$AlK(SO_4)_2$. $12H_2O$.....0.01 g
H_3BO_3 .....0.01 g
Na_2MoO_4 . $2H_2O$.....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.

Wolfe's Vitamins Solution:
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

Selenite/Tungstate Solution:
NaOH.....0.5 g
Na_2SeO_3 . $5H_2O$.....3.0 mg
Na_2WO_4 . $2H_2O$.....4.0 mg
Distilled deionized water....1.0 L

$NaHCO_3$ Solution:
Add 2.5 grams of $NaHCO_3$ to 50.0 ml of distilled deionized water. Filter-sterilize using pressure (syringe-filter unit) rather than suction.