ATCC medium: 1282 Medium for sulfate reducers

Component I:
$MgSO_4$ .....2.0 g
Sodium citrate.....5.0 g
$CaSO_4$ .....1.0 g
NH_4Cl .....1.0 g
Distilled water.....400.0 ml

Component II:
K_2HPO_4 .....0.5 g
Distilled water.....200.0 ml

Component III:
Sodium lactate.....3.5 g
Yeast extract.....1.0 g
Distilled water.....400.0 ml

Adjust the pH of each component to 7.5 and autoclave at 121C for 15 minutes. Mix the three components aseptically and tube under 97% N_2, 3% H_2 while they are still warm to exclude as much oxygen as possible. Before inoculation, aseptically add the following filter-sterilized solutions:

5% Ferrous ammonium sulfate.....20.0 ml
Organic Acid Solution (see below).....10.0 ml
Wolfe's Vitamin Solution (see below)....10.0 ml
Wolfe's Mineral Solution (see below)....10.0 ml

Organic Acid Solution:
Butyric acid.....5.18 ml
Caproic acid.....2.4 ml
Octanoic acid.....1.25 ml
Distilled water to.....50.0 ml

Adjust pH to 7.0 with 5 N NaOH and dilute to 100 ml with distilled water.

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

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.