196: DESULFOCAPSA SULFEXIGENS MEDIUM

Solution A	961.00	ml
Solution B	30.00	ml
Solution C	10.00	ml

1. First dissolve 2.7 g $FeCl_3$ x 6 H_2O in distilled water and adjust the pH to 7.0 with 1 N NaOH (about 3 ml). Add and dissolve remaining salts of solution A and sparge medium with 80% N_2 and 20% CO_2 gas mixture for at least 30 min, then distribute under same gas atmosphere in anoxic Hungate-type tubes or serum vials and autoclave. Solution B is autoclaved separately under 80% N_2 and 20% CO_2 gas atmosphere. Solution C is autoclaved separately under 100% N_2 gas atmosphere. To complete the medium appropriate amounts of solutions B and C are added to the sterile solution A in the sequence as indicated. Final pH of the medium should be adjusted to 7.2.

2. Note: For transfers use 5 - 10% (v/v) inoculum.

Solution A

$FeCl_3$ x 6 H_2O	2.70	g
Na_2SO_4	3.00	g
KH_2PO_4	0.20	g
NH_4Cl	0.30	g
NaCl	21.00	g
$MgCl_2$ x 6 H_2O	3.00	g
KCl	0.50	g
$CaCl_2$ x 2 H_2O	0.15	g
Trace element solution SL-10	1.00	ml
Distilled water	960.00	ml

Solution B

Na_2CO_3	1.50	g
Distilled water	30.00	ml

Solution C

$Na_2S_2O_3$ x 5 H_2O	2.50	g
Distilled water	10.00	ml

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
$FeCl_2$ x 4 H_2O	1.50	g

$ZnCl_2$	70.00	mg
$MnCl_2 \times 4\ H_2O$	100.00	mg
H_3BO_3	6.00	mg
$CoCl_2 \times 6\ H_2O$	190.00	mg
$CuCl_2 \times 2\ H_2O$	2.00	mg
$NiCl_2 \times 6\ H_2O$	24.00	mg
$Na_2MoO_4 \times 2\ H_2O$	36.00	mg
Distilled water	990.00	ml

First dissolve $FeCl_2$ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.