## **Microorganisms**



## 149: MEGADESULFOVIBRIO MEDIUM

Solution A	970.00	ml
Solution B	20.00	ml
Solution C	1.00	ml
Solution D	10.00	ml

- 1. Sparge solution A with 80%  $N_2$  and 20%  $CO_2$  gas mixture for 30 45 min to make it anoxic, then dispense under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Solution B is autoclaved under 80%  $N_2$  and 20%  $CO_2$  gas atmosphere. Solution C is prepared under 100%  $N_2$  gas atmosphere and sterilized by filtration. Solution D is autoclaved separately under 100%  $N_2$  gas. To complete the medium appropriate amounts of solutions B to D are added to the sterile solution A in the sequence as indicated. Final pH of the medium should be 7.0 7.2.
- 2. Note: Addition of 10 20 mg sodium dithionite per liter (e.g. from 5% (w/v) solution, freshly prepared under  $N_2$  and filter-sterilized) may stimulate growth of some strains at the beginning. For transfers use 5 10% inoculum.

Solution A		
$KH_2PO_4$	1.00	g
NH <sub>4</sub> Cl	0.50	g
$MgSO_4 \times 7 H_2O$	0.40	g
$Na_2SO_4$	2.00	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.10	g
Trace element solution SL-6	1.00	ml
$H_2SO_4$ (2 N)	1.00	ml
Na-L-lactate	2.00	g
Sodium resazurin (0.1% w/v)	0.50	ml
Distilled water	970.00	ml
Solution B		
Na <sub>2</sub> CO <sub>3</sub>	1.00	g
Distilled water	20.00	ml
Solution C Seven vitamins solution	1.00	ml
Solution D Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.30	g

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Distilled water	10.00	ml		
Trace element solution SL-6 (from medium 27)				
$ZnSO_4 \times 7 H_2O$	0.10	g		
$MnCl_2 \times 4 H_2O$	0.03	g		
$H_3BO_3$	0.30	g		
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	0.20	g		
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	0.01	g		
$NiCl_2 \times 6 H_2O$	0.02	g		
$Na_2MoO_4 \times 2 H_2O$	0.03	g		
Distilled water	1000.00	ml		
Seven vitamins solution (from medium 503)				
Vitamin B <sub>12</sub>	100.00	mg		
p-Aminobenzoic acid	80.00	mg		
D-(+)-biotin	20.00	mg		
Nicotinic acid	200.00	mg		
Calcium pantothenate	100.00	mg		
Pyridoxine hydrochloride	300.00	mg		
Thiamine-HCl x 2 H <sub>2</sub> O	200.00	mg		
Distilled water	1000.00	ml		