## **Microorganisms**



## **496: PSEUDODESULFOVIBRIO MEDIUM**

Solution A	962.00	ml
Solution B	20.00	ml
Solution C	10.00	ml
Solution D	1.00	ml
Solution E	10.00	ml

- 1. Solution A is sparged with  $80\%~N_2$  and  $20\%~CO_2$  gas mixture to reach a pH below 6 (at least 30 min), then dispensed under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclaved. Solution B is autoclaved separately under  $80\%~N_2$  and  $20\%~CO_2$  gas atmosphere. Solutions C and E are autoclaved under  $100\%~N_2$  gas. Solution D is filter-sterilized and gassed with  $100\%~N_2$  gas. To complete the medium appropriate amounts of solutions B to E are added to the sterile solution A in the sequence as indicated. Final pH of the medium should be 6.8-7.2.
- 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% (v/v) inoculum.

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0.0.0.0		
$Na_2SO_4$	3.00	g
KH <sub>2</sub> PO <sub>4</sub>	0.20	g
NH <sub>4</sub> Cl	0.30	g
NaCl	70.00	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	3.00	g
KCI	0.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.15	g
Trace element solution SL-10	1.00	ml
Selenite-tungstate solution	1.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
Distilled water	960.00	ml

## **Solution B**

$Na_2CO_3$	1.00	g
Distilled water	20.00	ml

#### **Solution C**

Na-L-lactate	2.50	g
Distilled water	10.00	ml

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Solution D		
Wolin's vitamin solution (10x)	1.00	ml

## **Solution E**

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$Na_2S \times 9 H_2O$	0.40	g
Distilled water	10.00	ml

## Trace element solution SL-10 (from medium 320)

HCI (25%)	10.00	ml
FeCl <sub>2</sub> x 4 H <sub>2</sub> O	1.50	g
ZnCl <sub>2</sub>	70.00	mg
$MnCl_2 \times 4 H_2O$	100.00	mg
$H_3BO_3$	6.00	mg
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	190.00	mg
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	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<sub>2</sub> in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

## Selenite-tungstate solution (from medium 385)

NaOH	0.50	g
$Na_2SeO_3 \times 5 H_2O$	3.00	mg
$Na_2WO_4 \times 2 H_2O$	4.00	mg
Distilled water	1000.00	ml

## Wolin's vitamin solution (10x) (from medium 120)

Biotin	20.00	ma
DIOUII	20.00	mg
Folic acid	20.00	mg
Pyridoxine hydrochloride	100.00	mg
Thiamine HCI	50.00	mg
Riboflavin	50.00	mg
Nicotinic acid	50.00	mg
Calcium D-(+)-pantothenate	50.00	mg
Vitamin B <sub>12</sub>	1.00	mg
p-Aminobenzoic acid	50.00	mg
(DL)-alpha-Lipoic acid	50.00	mg
Distilled water	1000.00	ml