Microorganisms



916: DESULFOFABA HANSENII MEDIUM

Solution A	912.00	ml
Solution B	50.00	ml
Solution C	25.00	ml
Solution D	10.00	ml
Solution E	1.00	ml
Solution F	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 same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Solutions B and D are autoclaved under 100% N_2 gas atmosphere. Solution C is autoclaved separately under 80% N_2 and 20% CO_2 gas atmosphere. Solutions E and F are prepared under 100% N_2 gas and sterilized by filtration. To complete the medium appropriate amounts of solutions B to F are added to the sterile solution A in the sequence as indicated. The pH of the complete 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 at the beginning.

Solution A		
NaCl	20.00	g
KCI	0.67	g
NH ₄ Cl	0.10	g
KH ₂ PO ₄	0.01	g
$MgSO_4 \times 7 H_2O$	0.02	g
Na_2SO_4	1.42	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	910.00	ml
Solution B		
$MgCl_2 \times 6 H_2O$	10.60	g
CaCl ₂ x 2 H ₂ O	1.52	g
Distilled water	50.00	ml
Solution C		
Na ₂ CO ₃	1.25	g
Distilled water	25.00	ml

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Na-propionate	0.96	g
Distilled water	10.00	ml

Solution E

Wolin's vitamin solution (10x)	1.00	ml

Solution F

FeCl ₂ x 4 H ₂ O	0.52	g
Distilled water	10.00	ml

Adjust to pH 2 with HCl.

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
FeCl ₂ x 4 H ₂ O	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 x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ 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 $FeCl_2$ 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 ₂ SeO ₃ x 5 I	H_2O 3.00	mg
Na ₂ WO ₄ x 2 F	H_2O 4.00	mg
Distilled wate	er 1000.00	ml

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

John B Titaliiii Bolation (20x) (,	
Biotin	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

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Calcium D-(+)-pantothenate	50.00	mg
Vitamin B ₁₂	1.00	mg
p-Aminobenzoic acid	50.00	mg
(DL)-alpha-Lipoic acid	50.00	mg
Distilled water	1000.00	ml