Microorganisms



835: DESULFUROMONAS CHLOROETHENICA MEDIUM

Solution A	921.00	ml
Solution B	35.00	ml
Solution C	25.00	ml
Solution D	10.00	ml
Solution E	1.00	ml
Solution F	10.00	ml

Solution A is sparged with 80% N_2 and 20% CO_2 gas mixture to reach a pH below 6 (at least 30 -45 min), then distributed under the 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 D and F are autoclaved under 100% N_2 gas atmosphere. Solutions C and E are prepared under 100% N_2 gas atmosphere 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. Final pH of the medium should be 7.0 - 7.2.

Solution	Α
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NH_4CI	0.40	g
KH ₂ PO ₄	0.50	g
$MgCl_2 \times 6 H_2O$	0.30	g
NaCl	0.40	g
CaCl ₂ x 2 H ₂ O	10.00	mg
Trace element solution SL-10	1.00	ml
Na-acetate	0.41	g
Sodium resazurin (0.1% w/v)	0.50	ml
Distilled water	920.00	ml

Solution B

Na_2CO_3	1.75	g
Distilled water	35.00	ml

Solution C

Na ₂ -fumarate	3.20	g
Distilled water	25.00	ml

Solution D

L-Cysteine HCl x H ₂ O	0.25	g
Distilled water	10.00	ml

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Solution E

1.00	ml
0.25 10.00	g ml
	0.25

Trace element solution SL-10 (from medium 320)

HCI (25%)	10.00	ml
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO 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 x 6 H ₂ O	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.

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

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
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