

1584. DESULFUROMONAS CARBONIS MEDIUM

NaCl	8.80	g
KCl	0.34	g
NH ₄ Cl	0.25	g
MgCl ₂ x 6 H ₂ O	4.84	g
CaCl ₂ x 2 H ₂ O	0.15	g
K ₂ HPO ₄	0.15	g
Fe(NH ₄) ₂ (SO ₄) ₂ solution (0.1% w/v)	3.00	ml
NiCl ₂ x 6 H ₂ O solution (0.1% w/v)	9.00	ml
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
NaHCO ₃	4.50	g
Na ₂ -Fumarate	8.00	g
Vitamin solution (see medium 141)	10.00	ml
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, fumarate and vitamins) and sparge medium with 80% N₂ and 20% CO₂ gas mixture to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving complete the medium by adding fumarate and vitamins from sterile anoxic stock solutions prepared under 100% N₂ gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Stock solutions of fumarate and vitamins are sterilized by filtration. Adjust pH of the complete medium to 7.0 - 7.2, if necessary.