

1097. SULFUROSPIRILLUM MV MEDIUM

NaCl	20.0	g
MgCl ₂ x 6 H ₂ O	3.0	g
KCl	0.7	g
NH ₄ Cl	0.2	g
KH ₂ PO ₄	0.2	g
CaCl ₂ x 2 H ₂ O	0.2	g
Trace element solution SL-10 (see medium 320)	2.0	ml
Selenite-tungstate solution (see medium 385)	1.0	ml
Na-resazurin solution (0.1% w/v)	0.5	ml
NaHCO ₃	2.5	g
Na ₂ -fumarate	1.6	g
Vitamin solution (see medium 141)	10.0	ml
Na ₂ S x 9 H ₂ O	0.3	g
Distilled water	1000.0	ml

Dissolve ingredients (except bicarbonate, fumarate, vitamins and sulfide), then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add fumarate, vitamins and sulfide 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 vitamins and fumarate should be sterilized by filtration. Adjust pH of complete medium to 7.2, if necessary.