

1097. SULFUROSPIRILLUM MV MEDIUM

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|---|--------|----|
| 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 |
| Na ₂ CO ₃ | 1.5 | 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 carbonate, 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 carbonate 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.