

968b. MLMS-1 MEDIUM (ARSENATE)

(NH ₄) ₂ SO ₄	0.10	g
MgSO ₄	25.00	mg
NaCl	60.00	g
K ₂ HPO ₄	0.15	g
KH ₂ PO ₄	0.08	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	10.60	g
NaHCO ₃	4.20	g
Na ₂ HAsO ₄ x 7 H ₂ O	3.10	g
Vitamin solution (see medium 141)	10.00	ml
Na ₂ S x 9H ₂ O	0.82	g
Distilled water	1000.00	ml

Dissolve ingredients (except carbonates, arsenate, vitamins and sulfide), sparge medium with 100% N₂ gas for 30 - 45 min to make it anoxic. Add solid carbonate and hydrogencarbonate, adjust pH to 9.8, dispense medium under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Prior to inoculation, add arsenate, vitamins (sterilized by filtration) and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. Adjust pH of complete medium to 9.8, if necessary.