

898b. SERPENTINICELLA MEDIUM

KH ₂ PO ₄	0.20	g
MgCl ₂ x 6 H ₂ O	0.10	g
KCl	0.20	g
NH ₄ Cl	1.00	g
NaCl	1.00	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Na ₂ S ₂ O ₃ x 5 H ₂ O	1.50	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	2.76	g
NaHCO ₃	10.00	g
Yeast extract	5.00	g
Na-crotonate	1.72	g
Vitamin solution (see medium 141)	10.00	ml
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve all ingredients except carbonates, yeast extract, crotonate, vitamins and sulfide, then sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Add carbonate and hydrogencarbonate, adjust pH to 9.0 - 9.5, dispense medium under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add yeast extract, crotonate, vitamins and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. Vitamins should be sterilized by filtration. Adjust pH of complete medium to 9.5 – 9.7.