

1101a. DESULFONATRONUM ZHILINAE MEDIUM

NaCl	25.00	g
K ₂ HPO ₄	0.50	g
Yeast extract	0.20	g
Na ₂ SO ₄	3.00	g
NaHCO ₃	1.85	g
Na ₂ CO ₃	1.20	g
MgCl ₂ x 6 H ₂ O	0.10	g
Trace elements solution (see medium 1369)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Vitamin solution (see medium 503)	1.00	ml
Na-L-lactate	2.20	g
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients except carbonates, magnesium chloride, trace elements, vitamins, lactate and sulfide, then sparge medium with 100% N₂ gas for 30 - 45 min to make it anoxic. Then add and dissolve carbonates, adjust pH to 9.0, dispense under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add magnesium chloride, trace elements, vitamins, lactate and sulfide from sterile anoxic stock solution prepared under 100% N₂ gas. The vitamin solution should be sterilized by filtration. Adjust pH of complete medium to 9.0 – 9.5, if necessary.