

1100. DESULFACINUM MEDIUM

Na ₂ SO ₄	3.00	g
KH ₂ PO ₄	0.20	g
NH ₄ Cl	0.30	g
NaCl	7.00	g
Trace element solution SL-11 (see medium 722)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
MgCl ₂ x 6 H ₂ O	3.10	g
KCl	0.50	g
CaCl ₂ x 2 H ₂ O	0.15	ml
Yeast extract	0.50	g
Na-resazurin solution (0.1% w/v)	0.50	ml
NaHCO ₃	1.50	g
Na-L-lactate	2.00	g
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, lactate and sulfide) and sparge medium with 100% N₂ gas 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 lactate 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. The sulfide stock solution should be neutralized with H₂SO₄ prior to sterilization (see medium 29). Adjust pH of the complete medium to 7.2, if necessary.