

935b. DEFERRIBACTER DESULFURICANS MEDIUM

NH ₄ Cl	0.33	g
KCl	0.33	g
CaCl ₂ x 2 H ₂ O	0.33	g
MgCl ₂ x 6 H ₂ O	0.33	g
KH ₂ PO ₄	0.33	g
NaCl	25.00	g
Trace elements solution (see medium 141)	10.00	ml
KNO ₃	0.50	g
Na-acetate	2.00	g
Yeast extract	0.15	g
NaHCO ₃	0.30	g
Vitamin solution (see medium 141)	10.00	ml
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate and vitamins), then sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Adjust pH to 7.0 and dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials which contain already the appropriate amount of sulfur and autoclave. Add vitamins from an anoxic stock solution prepared under 100% N₂ gas and sterilized by filtration and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. The pH of the complete medium should be 7.0.