

1451. DEFERRISOMA MEDIUM

KH ₂ PO ₄	0.33	g
NH ₄ Cl	0.33	g
KCl	0.33	g
NaCl	18.00	g
CaCl ₂ x 2 H ₂ O	0.33	g
MgCl ₂ x 6 H ₂ O	4.00	g
Yeast extract	0.20	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Fe(III)-citrate (19% Fe)	2.50	g
NaHCO ₃	2.50	g
Vitamin solution (see medium 141)	10.00	ml
Distilled water	1000.00	ml

Dissolve ingredients (except ferric citrate, bicarbonate and vitamins) and sparge medium with 80% N₂ and 20% CO₂ gas mixture 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 ferric citrate (dissolve by boiling and adjust pH to 6.5 – 7.0) and vitamins 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. Sterilize vitamins by filtration. Adjust pH of the complete medium to 6.5, if necessary.

For [DSM 103037](#) supplement autoclaved medium with 0.41 g/l Na-acetate, 0.34 g/l Na-formate, 1.00 g/l D-glucose and 0.10 g/l Na₂S x 9 H₂O added from sterile anoxic stock solutions. Reduce amount of bicarbonate to 1.00 g/l and adjust pH of complete medium to 5.5 – 6.0.