

1451. DEFERRISOMA MEDIUM

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|---|---------|----|
| 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 |
| Na ₂ CO ₃ | 1.00 | g |
| Vitamin solution (see medium 141) | 10.00 | ml |
| Distilled water | 1000.00 | ml |

Dissolve ingredients (except ferric citrate, carbonate 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 carbonate 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 carbonate to 0.50 g/l and adjust pH of complete medium to 5.5 – 6.0.