

935a. DEFERRIBACTER THERMOPHILUS MEDIUM

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| 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 |
| Sulfur, powdered | 10.00 | g |
| Na ₂ CO ₃ | 2.00 | g |
| Vitamin solution (see medium 141) | 10.00 | ml |
| Distilled water | 1000.00 | ml |

Dissolve ingredients (except sulfur, carbonate and vitamins), then sparge medium with 80% H₂ 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 which contain already the appropriate amount of sulfur. Autoclave at a temperature of **110°C** for 20 min! Add vitamins from an anoxic stock solutions prepared under 100% N₂ gas and sterilized by filtration and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. The pH of the complete medium should be 6.5. After inoculation add sterile 80% H₂ and 20% CO₂ gas mixture to 1 bar overpressure.