

826. GEOBACTER SULFURREDUCTENS MEDIUM

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|-----------------------------------------|--------|----|
| NH ₄ Cl | 1.50 | g |
| Na ₂ HPO ₄ | 0.60 | g |
| KCl | 0.10 | g |
| Na-acetate | 0.82 | g |
| Trace element solution (see medium 141) | 10.00 | ml |
| NaHCO ₃ | 2.50 | g |
| Na ₂ -fumarate | 8.00 | g |
| Vitamin solution (see medium 141) | 10.00 | ml |
| Distilled water | 980.00 | ml |

Dissolve ingredients (except bicarbonate, fumarate and vitamins), sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Add bicarbonate and equilibrate the medium with 80% N₂ and 20% CO₂ gas mixture to reach a pH of 6.8, then dispense medium under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving add fumarate and vitamins from anoxic stock solutions prepared under 100% N₂ gas atmosphere and sterilized by filtration. Check medium pH and adjust to 6.8, if necessary.