

1059. GEOALKALIBACTER MEDIUM

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|---|---------|----|
| NH ₄ Cl | 0.50 | g |
| KCl | 0.20 | g |
| MgCl ₂ x 6 H ₂ O | 0.10 | g |
| KH ₂ PO ₄ | 0.20 | g |
| NaCl | 1.00 | g |
| Yeast extract | 0.10 | g |
| Trace element solution SL-10 (see medium 320) | 1.00 | ml |
| Selenite-tungstate solution (see medium 385) | 1.00 | ml |
| Na-resazurin solution (0.1% w/v) | 0.50 | ml |
| Na ₂ CO ₃ | 3.00 | g |
| NaHCO ₃ | 10.00 | g |
| Sulfur, powdered | 10.00 | g |
| Na-acetate | 2.50 | g |
| Distilled water | 1000.00 | ml |

Dissolve ingredients (except carbonates, sulfur and acetate), then sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Add solid carbonate and bicarbonate, adjust pH to 9.0 - 9.2, dispense under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials containing already the appropriate amount of sulfur. Sterilize medium by heating cultivation vessels in a water bath to 90 – 100°C for 1 – 2 hours on each of 3 successive days. Add acetate from a sterile anoxic stock solution prepared under 100% N₂ gas.