

1409. METHYLOCYSTIS MEDIUM**Mineral Salts Solution:**

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|--|---------|----|
| KNO ₃ | 0.20 | g |
| KH ₂ PO ₄ | 0.10 | g |
| MgSO ₄ x 7 H ₂ O | 0.05 | g |
| CaCl ₂ x 2 H ₂ O | 0.01 | g |
| NaCl | 0.01 | g |
| Trace Element Solution (see below) | 1.00 | ml |
| Distilled Water | 1000.00 | ml |

Trace Element Solution:

| | | |
|--|---------|----|
| EDTA | 5.00 | g |
| CuCl ₂ x 5 H ₂ O | 0.10 | g |
| FeSO ₄ x 7 H ₂ O | 2.00 | g |
| ZnSO ₄ x 7 H ₂ O | 0.10 | g |
| NiCl ₂ x 6 H ₂ O | 0.02 | g |
| CoCl ₂ x 6 H ₂ O | 0.20 | g |
| Na ₂ MoO ₄ | 0.03 | g |
| Distilled water | 1000.00 | ml |

Prepare the liquid medium. Final pH 5.8-6.2. Dispense the medium into serum bottles with a medium to headspace ratio of about 1:4. Add 20% methane to the gas phase. Sterilize by autoclaving. Incubate the cultures with shaking.