# 137: MINERAL LACTATE MEDIUM (low carbon content)

Final pH: 7.0
Final volume: 1000 ml

| | | |
|---|---|---|
| Na-lactate | 0.50 | g |
| $K_2HPO_4$ x 3 $H_2O$ | 1.13 | g |
| $KH_2PO_4$ | 0.88 | g |
| $NH_4Cl$ | 1.00 | g |
| $MgSO_4$ x 7 $H_2O$ | 0.50 | g |
| NaCl | 1.00 | g |
| $CaCl_2$ x 2 $H_2O$ | 5.00 | mg |
| **Trace element solution (Vishniac & Santer, 1957)** | 1.20 | ml |
| Distilled water | 1000.00 | ml |

Adjust pH to 7.0.

## Trace element solution (Vishniac & Santer, 1957) (from medium 69)

| | | |
|---|---|---|
| $Na_2$-EDTA | 50.00 | g |
| $ZnSO_4$ x 7 $H_2O$ | 22.00 | g |
| $CaCl_2$ x 2 $H_2O$ | 5.54 | g |
| $MnCl_2$ x 4 $H_2O$ | 5.06 | g |
| $FeSO_4$ x 7 $H_2O$ | 5.00 | g |
| $(NH_4)_6Mo_7O_{24}$ x 4 $H_2O$ | 1.10 | g |
| $CuSO_4$ x 5 $H_2O$ | 1.57 | g |
| $CoCl_2$ x 6 $H_2O$ | 1.61 | g |
| Distilled water | 1000.00 | ml |

Dissolve EDTA in distilled water, adjust pH to 7 using 2 N KOH, then add remaining compounds. Adjust pH of final solution to 6.0 with KOH.

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