# 1099: DESULFOLUNA MEDIUM

| | | |
|---|---|---|
| NaCl | 20.00 | g |
| $KH_2PO_4$ | 0.50 | g |
| $NH_4Cl$ | 1.00 | g |
| $Na_2SO_4$ | 1.00 | g |
| $CaCl_2$ x 2 $H_2O$ | 0.10 | g |
| $MgSO_4$ x 7 $H_2O$ | 2.00 | g |
| Yeast extract | 0.50 | g |
| **Trace element solution SL-10** | 1.00 | ml |
| Na-L-lactate | 2.50 | g |
| Sodium resazurin (0.1% w/v) | 0.50 | ml |
| L-Cysteine HCl x $H_2O$ | 0.50 | g |
| Distilled water | 1000.00 | ml |

Dissolve ingredients (except cysteine) and sparge medium with 100% $N_2$ gas for 30 - 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add cysteine form a sterile anoxic stock solution prepared under 100% $N_2$ gas and adjust pH of the complete medium to 6.5, if necessary.

## Trace element solution SL-10 (from medium 320)

| | | |
|---|---|---|
| HCl (25%) | 10.00 | ml |
| $FeCl_2$ x 4 $H_2O$ | 1.50 | g |
| $ZnCl_2$ | 70.00 | mg |
| $MnCl_2$ x 4 $H_2O$ | 100.00 | mg |
| $H_3BO_3$ | 6.00 | mg |
| $CoCl_2$ x 6 $H_2O$ | 190.00 | mg |
| $CuCl_2$ x 2 $H_2O$ | 2.00 | mg |
| $NiCl_2$ x 6 $H_2O$ | 24.00 | mg |
| $Na_2MoO_4$ x 2 $H_2O$ | 36.00 | mg |
| Distilled water | 990.00 | ml |

First dissolve $FeCl_2$ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

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