# 1055. DESULFOHALOBIUM UTAHENSE MEDIUM

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|---|---|---|
| NaCl | 100.0 | g |
| $MgSO_4$ x 7 $H_2O$ | 10.0 | g |
| KCl | 6.0 | g |
| $CaCl_2$ x 2 $H_2O$ | 0.4 | g |
| $NH_4Cl$ | 1.0 | g |
| $KH_2PO_4$ | 0.1 | g |
| Yeast extract | 0.5 | g |
| Trace element solution SL-10 (see medium 320) | 1.0 | ml |
| Selenite-tungstate solution (see medium 385) | 1.0 | ml |
| Na-resazurin solution (0.1% w/v) | 0.5 | ml |
| $Na_2CO_3$ | 1.5 | g |
| Vitamin solution (see medium 141) | 10.0 | ml |
| Na-L-lactate | 2.5 | g |
| $Na_2S$ x 9 $H_2O$ | 0.3 | g |
| Distilled water | 1000.0 | ml |

Dissolve ingredients (except carbonate, vitamins, lactate and sulfide) and sparge medium with 80% $N_2$ and 20% $CO_2$ gas mixture 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 vitamins (sterilized by filtration), lactate and sulfide from sterile anoxic stock solutions prepared under 100% $N_2$ gas and carbonate from a sterile anoxic stock solution prepared under 80% $N_2$ and 20% $CO_2$ gas mixture. Adjust pH of the complete medium to 7.0 - 7.2, if necessary.

For DSM 18834 replace Na-L-lactate with 1.0 g/l $Na_2$-DL-malate.

For DSM 24312 omit Na-L-lactate and add 3.4 g/l Na-formate, 0.16 g/l Na-acetate and 5.0 g/l $Na_2S_2O_3$ from sterile anoxic stock solutions prepared under 100% $N_2$ gas.