875. DESULFACINUM HYDROTHERMALE MEDIUM

Solution A:
NaCl 26.00 g
MgCl₂ x 6 H₂O 5.60 g
CaCl₂ x 2 H₂O 1.40 g
MgSO₄ x 7 H₂O 6.80 g
NH₄Cl 0.25 g
KH₂PO₄ 0.20 g
KCl 0.72 g
Na-resazurin solution (0.1% w/v) 0.50 ml
Distilled water 920.00 ml

Solution B:
Trace element solution SL-10 (see medium 320) 1.00 ml

Solution C:
Na₂CO₃ 1.50 g
Distilled water 30.00 ml

Solution D:
Vitamin solution (see medium 503) 1.00 ml

Solution E:
Na-DL-lactate 2.50 g
Distilled water 10.00 ml

Solution F:
Na₂S x 9 H₂O 0.40 g
Distilled water 10.00 ml

Solution A is sparged with 80% N₂ and 20% CO₂ gas mixture to reach a pH below 6 (at least 30 – 45 min), then distributed under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclaved. Solutions B, E and F are autoclaved separately under 100% N₂ gas atmosphere. Solution C is autoclaved under 80% N₂ and 20% CO₂ gas atmosphere. Solution D is prepared under 100% N₂ gas atmosphere and sterilized by filtration. To complete the medium appropriate amounts of solutions B to F are added to the sterile solution A in the sequence as indicated. Final pH of the medium should be 7.0 - 7.3.

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