

875. DESULFACINUM HYDROTHERMALE MEDIUM**Solution A:**

NaCl	26.00	g
MgCl ₂ x 6 H ₂ O	5.60	g
CaCl ₂ x 2 H ₂ O	1.40	g
MgSO ₄ x 7 H ₂ O	6.80	g
NH ₄ Cl	0.25	g
KH ₂ PO ₄	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
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Solution C:

NaHCO ₃	2.50	g
Distilled water	50.00	ml

Solution D:

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

Na-DL-lactate	2.50	g
Distilled water	10.00	ml

Solution F:

Na ₂ S x 9 H ₂ O	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.