

916. DESULFOMUSA HANSENI I MEDIUM

Solution A:

NaCl	20.00	g
KCl	0.67	g
NH ₄ Cl	0.10	g
KH ₂ PO ₄	0.01	g
MgSO ₄ x 7 H ₂ O	0.02	g
Na ₂ SO ₄	1.42	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	900.00	ml

Solution B:

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

Selenite-tungstate solution (see medium 385)	1.00	ml
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Solution D:

Na ₂ CO ₃	1.25	g
Distilled water	25.00	ml

Solution E:

Vitamin solution (see medium 141)	10.00	ml
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Solution F:

MgCl ₂ x 6 H ₂ O	10.60	g
CaCl ₂ x 2 H ₂ O	1.52	g
Distilled water	50.00	ml

Solution G:

FeCl ₂ x 4 H ₂ O	0.52	g
Distilled water	10.00	ml

Adjust to pH 2 with HCl.

Solution H:

Na-propionate	0.96	g
Distilled water	10.00	ml

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Sparge *solution A* with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic, then dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. *Solutions B, C, F, G* and *H* are autoclaved separately under 100% N₂ gas atmosphere. *Solution D* is autoclaved under 80% N₂ and 20% CO₂ gas atmosphere. *Solution E* is prepared under 100% N₂ gas and sterilized by filtration. To complete the medium appropriate amounts of *solutions B* to *H* are added to the sterile *solution A* in the sequence as indicated. The pH of the complete medium should be 7.0 - 7.2.

Note: Addition of 10 - 20 mg sodium dithionite per liter (e.g. from 5% (w/v) solution, freshly prepared under N₂ and filter-sterilized) may stimulate growth at the beginning.