

## 916. DESULFOMUSA HANSENI I MEDIUM

### Solution A:

NaCl	20.00	g
KCl	0.67	g
NH <sub>4</sub> Cl	0.10	g
KH <sub>2</sub> PO <sub>4</sub>	0.01	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.02	g
Na <sub>2</sub> SO <sub>4</sub>	1.42	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	870.00	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:

NaHCO <sub>3</sub>	5.00	g
Distilled water	50.00	ml

### Solution E:

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

MgCl <sub>2</sub> x 6 H <sub>2</sub> O	10.60	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	1.52	g
Distilled water	50.00	ml

### Solution G:

FeCl <sub>2</sub> x 4 H <sub>2</sub> 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% N<sub>2</sub> and 20% CO<sub>2</sub> 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% N<sub>2</sub> gas atmosphere. *Solution D* is autoclaved under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas atmosphere. *Solution E* is prepared under 100% N<sub>2</sub> 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 N<sub>2</sub> and filter-sterilized) may stimulate growth at the beginning.*