

## 386. DESULFOVIBRIO SULFODISMUTANS MEDIUM

### Solution A:

KH <sub>2</sub> PO <sub>4</sub>	0.20	g
NH <sub>4</sub> Cl	0.25	g
NaCl	1.00	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.40	g
KCl	0.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.15	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	940.00	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-acetate x 3 H <sub>2</sub> O	0.30	g
Distilled water	10.00	ml

### Solution E:

Na <sub>2</sub> CO <sub>3</sub>	1.50	g
Distilled water	30.00	ml

### Solution F:

Vitamins solution (see medium 503)	1.00	ml
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### Solution G:

Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.40	g
Distilled water	13.00	ml

### Solution H:

Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> (sodium pyrosulfite)	0.95	g
Distilled water	10.00	ml

Adjust pH to 7.5-8.0 with NaOH.

*Solution A* is sparged 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture for 30 – 45 min to make it anoxic, then distributed under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclaved.

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*Solutions B, C, D and G* are prepared under 100% N<sub>2</sub> gas and autoclaved separately. *Solution E* is prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture and autoclaved. *Solutions F and H* are prepared under 100% N<sub>2</sub> gas atmosphere and sterilized by filtration. To complete the medium appropriate amounts of the *solutions B to H* are added to the sterile *solution A* in the sequence as indicated. Final pH of the medium should be at 7.1 - 7.4.

*Note: When growth has started feed culture again with same amount of pyrosulfite. After a further two days repeat feeding once more.*

For DSM 7269 replace *solution G* with 2.50 g/l Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> x 5 H<sub>2</sub>O added to the medium after autoclaving from a sterile anoxic stock solution.