

386. DESULFOVIBRIO SULFODISMUTANS MEDIUM

Solution A:

KH ₂ PO ₄	0.20	g
NH ₄ Cl	0.25	g
NaCl	1.00	g
MgCl ₂ x 6 H ₂ O	0.40	g
KCl	0.50	g
CaCl ₂ x 2 H ₂ O	0.15	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:

Selenite-tungstate solution (see medium 385)	1.00	ml
--	------	----

Solution D:

Na-acetate x 3 H ₂ O	0.30	g
Distilled water	10.00	ml

Solution E:

NaHCO ₃	2.50	g
Distilled water	50.00	ml

Solution F:

Vitamins solution (see medium 503)	1.00	ml
------------------------------------	------	----

Solution G:

Na ₂ S x 9 H ₂ O	0.40	g
Distilled water	10.00	ml

Solution H:

Na ₂ S ₂ O ₅ (sodium pyrosulfite)	0.95	g
Distilled water	10.00	ml

Adjust pH to 7.5-8.0 with NaOH.

Solution A is sparged 80% N₂ and 20% CO₂ 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.

Continued next page

Solutions B, C, D and G are prepared under 100% N₂ gas and autoclaved separately. *Solution E* is prepared under 80% N₂ and 20% CO₂ gas mixture and autoclaved. *Solutions F and H* are prepared under 100% N₂ 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 Na₂S₂O₃ x 5 H₂O added to the medium after autoclaving from a sterile anoxic stock solution.