

149. DESULFOVIBRIO GIGAS MEDIUM

Solution A:

KH ₂ PO ₄	1.0	g
NH ₄ Cl	0.5	g
MgSO ₄ x 7 H ₂ O	0.4	g
Na ₂ SO ₄	2.0	g
CaCl ₂ x 2 H ₂ O	0.1	g
Trace element solution SL-6 (see medium 27)	1.0	ml
2 N H ₂ SO ₄	1.0	ml
Na-L-lactate	2.0	g
Na-resazurin solution (0.1% w/v)	0.5	ml
Distilled water	970.0	ml

Solution B:

Na ₂ CO ₃	1.0	g
Distilled water	20.0	ml

Solution C:

Vitamin solution (see medium 503)	1.0	ml
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Solution D:

Na ₂ S x 9 H ₂ O	0.3	g
Distilled water	10.0	ml

Sparge *solution A* with 80% N₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic, then dispense under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. *Solution B* is autoclaved under 80% N₂ and 20% CO₂ gas atmosphere. *Solution C* is prepared under 100% N₂ gas atmosphere and sterilized by filtration. *Solution D* is autoclaved separately under 100% N₂ gas. To complete the medium appropriate amounts of *solutions B* to *D* are added to the sterile *solution A* in the sequence as indicated. Final pH of the 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 of some strains at the beginning. For transfers use 5 - 10% inoculum.