

496. DESULFOVIBRIO HALOPHILUS MEDIUM

Solution A:

Na ₂ SO ₄	3.00	g
KH ₂ PO ₄	0.20	g
NH ₄ Cl	0.30	g
NaCl	70.00	g
MgCl ₂ x 6 H ₂ O	3.00	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	930.00	ml

Solution B:

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

Na ₂ CO ₃	1.00	g
Distilled water	20.00	ml

Solution D:

Na-L-lactate	2.50	g
Distilled water	10.00	ml

Solution E:

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

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

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

Solution A is sparged with 80% N₂ and 20% CO₂ gas mixture to reach a pH below 6 (at least 30 min), then dispensed under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclaved. *Solutions B, D, F* and *G* are autoclaved separately under 100% N₂ gas. *Solution C* is autoclaved under 80% N₂ and 20% CO₂ gas atmosphere. *Solution E* is filter-sterilized and gassed with 100% N₂ gas. To complete the medium appropriate amounts of *solutions B* to *G* are added to the sterile *solution A* in the sequence as indicated. Final pH of the medium should be 6.8 – 7.2.

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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% (v/v) inoculum.