

861a. DESULFOTALEA PSYCHROPHILA MEDIUM

Solution A:

NaCl	10.00	g
Na ₂ SO ₄	4.00	g
KH ₂ PO ₄	0.20	g
NH ₄ Cl	0.25	g
MgCl ₂ x 6 H ₂ O	3.00	g
CaCl ₂ x 2 H ₂ O	0.15	g
KBr	0.09	g
KCl	0.50	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	1000.00	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 ₂ CO ₃	1.50	g
Distilled water	30.00	ml

Solution E:

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

Na-DL-lactate	2.50	g
Distilled water	10.00	ml

Solution G:

Na ₂ S x 9 H ₂ O	0.30	g
Distilled water	10.00	ml

Solution H:

Na ₂ S ₂ O ₄	0.03	g
Distilled water	1.00	ml

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Solution A is sparged with 80% N₂ and 20% CO₂ gas mixture to reach a pH below 6 (at least 30 – 45 min), then dispensed under the same gas atmosphere into serum vials (use at least bottles of 50 ml volume filled with 30 ml medium) and autoclaved. *Solutions B, C, F and G* are autoclaved separately under 100% N₂ gas. *Solution D* is autoclaved under 80% N₂ and 20% CO₂ gas atmosphere. *Solutions E and H* are prepared under 100% N₂ 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. Final pH of the medium should be 7.0 – 7.2.

Note: For transfer of cultures use at least 10% (v/v) inoculum.