

837. DESULFUROMONAS PALMITATIS MEDIUM**Solution A:**

NaCl	20.80	g
KCl	0.77	g
NH ₄ Cl	1.00	g
KH ₂ PO ₄	0.10	g
MgSO ₄ x 7 H ₂ O	0.20	g
CaCl ₂ x 2 H ₂ O	0.02	g
Na-acetate x 3 H ₂ O	1.36	g
Trace element solution (see medium 141)	10.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	860.00	ml

Solution B:

MgCl ₂ x 6 H ₂ O	10.60	g
CaCl ₂ x 2 H ₂ O	1.50	g
Distilled water	50.00	ml

Solution C:

NaHCO ₃	2.50	g
Distilled water	30.00	ml

Solution D:

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

Na ₂ -fumarate	8.00	g
Distilled water	50.00	ml

Sparge *solution A* with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic, distribute under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. *Solution B* is autoclaved separately under 100% N₂ gas atmosphere. *Solution C* is prepared under 80% N₂ and 20% CO₂ gas atmosphere. *Solutions D* and *E* are prepared under 100% N₂ gas atmosphere and sterilized by filtration. To complete the medium appropriate amounts of *solutions B* to *E* are added to the sterile *solution A* in the sequence as indicated. Adjust pH of complete medium to 6.9, if necessary. Prior to inoculation medium is reduced by addition of 10 - 20 mg sodium dithionite per liter (e.g. from 5% (w/v) solution, freshly prepared under N₂ and filter-sterilized).

Note: For transfers use 5 - 10% (v/v) inoculum.