

196. DESULFOCAPSA SULFOEXIGENS MEDIUM**Solution A:**

FeCl ₃ x 6 H ₂ O	2.70	g
Na ₂ SO ₄	3.00	g
KH ₂ PO ₄	0.20	g
NH ₄ Cl	0.30	g
NaCl	21.00	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
Distilled water	940.00	ml

Solution B:

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

Na ₂ CO ₃	1.50	g
Distilled water	30.00	ml

Solution D:

Na ₂ S ₂ O ₃ x 5 H ₂ O	2.50	g
Distilled water	10.00	ml

First dissolve 2.7 g FeCl₃ x 6 H₂O in 890 ml distilled water and adjust the pH to 7.0 with 1 N NaOH (about 3 ml). Add and dissolve remaining salts of *solution A* and sparge medium with 80% N₂ and 20% CO₂ gas mixture for at least 30 min, then distribute under same gas atmosphere in anoxic Hungate-type tubes or serum vials and autoclave. *Solutions B* and *D* are autoclaved separately under 100% N₂ gas atmosphere. *Solution C* is autoclaved under 80% N₂ and 20% CO₂ gas atmosphere. 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 adjusted to 7.2.

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