

347a. SYNTROPHOMONAS ZEHNDERI MEDIUM**Solution A:**

Mineral solution (see medium 212)	50.00	ml
Trace element solution SL-10 (see medium 320)	1.00	ml
Na ₂ SO ₄	2.80	g
PIPES (SIGMA)	15.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	810.00	ml

Solution B:

NaHCO ₃	3.50	g
Distilled water	70.00	ml

Solution C:

Vitamin solution (see medium 503)	1.00	ml
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Solution D:

Na-laurate	2.78	g
Distilled water	25.00	ml

Solution E:

CaCl ₂ x 2 H ₂ O	1.84	g
Distilled water	10.00	ml

Solution F:

L-Cysteine-HCl x H ₂ O	0.30	g
Distilled water	10.00	ml

Solution G:

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

Dissolve ingredients of *solution A*, adjust pH to 7.0, then sparge with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Distribute under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. *Solution B* is autoclaved separately under 80% N₂ and 20% CO₂ gas atmosphere. *Solution C* is prepared under 100% N₂ gas and sterilized by filtration. *Solutions D, E, F* and *G* are autoclaved under 100% N₂ gas. To complete the medium, appropriate amounts of the *solutions B* to *G* are added to *solution A* in the sequence indicated. Adjust pH of complete medium to 7.2, if necessary.