### 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
- Na₂SO₄ 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:**
- Na₂CO₃ 1.50 g
- Distilled water 30.00 ml

**Solution C:**
- Vitamin solution (see medium 503) 1.00 ml

**Solution D:**
- Na-laurate 2.78 g
- Distilled water 25.00 ml

**Solution E:**
- CaCl₂ x 2 H₂O 1.84 g
- Distilled water 10.00 ml

**Solution F:**
- L-Cysteine-HCl x H₂O 0.30 g
- Distilled water 10.00 ml

**Solution G:**
- Na₂S x 9 H₂O 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.