

**169. TREPONEMA ZUELZERAE MEDIUM****Solution A:**

CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.04	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.50	g
Yeast extract (OXOID)	4.00	g
D-Glucose	2.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
L-Cysteine-HCl x H <sub>2</sub> O	0.50	g
Distilled water	960.00	ml

**Solution B:**

NaHCO <sub>3</sub>	1.00	g
Distilled water	20.00	ml

**Solution C:**

0.5 M K-phosphate buffer, pH 7.4	20.00	ml
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Combine 16.04 ml of 0.5 M K<sub>2</sub>HPO<sub>4</sub> with 3.96 ml of 0.5 M KH<sub>2</sub>PO<sub>4</sub> stock solution to reach a pH of around 7.4.

Dissolve ingredients of *solution A* (except cysteine) and sparge medium with 100% N<sub>2</sub> gas for 30 – 45 min to make it anoxic. Add cysteine and adjust pH 7.2 with KOH, then distribute under the same gas atmosphere in anoxic Hungate-type tubes or serum vials and autoclave. *Solution B* is autoclaved separately under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas atmosphere and *solution C* is autoclaved under 100% N<sub>2</sub> gas atmosphere. To complete the medium appropriate amounts of *solutions B* and *C* are added to the sterile *solution A* in the sequence as indicated. Final pH of the complete medium should be 7.5. For solid medium add 10.00 g/l agar (BD Bacto) to *solution A*.