

**900. ACETOBACTERIUM TUNDRAE MEDIUM**

KCl	0.33	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.52	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.30	g
NH <sub>4</sub> Cl	0.33	g
KH <sub>2</sub> PO <sub>4</sub>	0.33	g
Trace mineral solution SL-10 (see medium 320)	1.00	ml
Yeast extract	1.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
NaHCO <sub>3</sub>	5.00	g
D-Fructose	5.00	g
Vitamin solution (see medium 503)	1.00	ml
L-Cysteine-HCl x H <sub>2</sub> O	0.30	g
Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.30	g
Distilled water	1000.00	ml

Dissolve ingredients except bicarbonate, fructose, vitamins and reducing agents. Sparge medium with 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture for 30 – 45 min to make it anoxic, then dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add fructose, vitamins, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture. The pH of the complete medium should be at 7.0.