

900. ACETOBACTERIUM TUNDRAE MEDIUM

KCl	0.33	g
MgCl ₂ x 6 H ₂ O	0.52	g
CaCl ₂ x 2 H ₂ O	0.30	g
NH ₄ Cl	0.33	g
KH ₂ PO ₄	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
Na ₂ CO ₃	1.50	g
D-Fructose	5.00	g
Vitamin solution (see medium 503)	1.00	ml
L-Cysteine-HCl x H ₂ O	0.30	g
Na ₂ S x 9 H ₂ O	0.30	g
Distilled water	1000.00	ml

Dissolve ingredients except carbonate, fructose, vitamins and reducing agents. Sparge medium with 80% N₂ and 20% CO₂ 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% N₂ gas and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. The pH of the complete medium should be at 7.0.

For [DSM 8238](#) replace fructose with 4.00 g/l Na-(DL)-lactate as the substrate. Adjust pH of complete medium to 7.5.