

614. ACETOBACTERIUM SP. MEDIUM

KCl	0.33	g
MgCl ₂ x 6 H ₂ O	0.52	g
CaCl ₂ x 2 H ₂ O	0.22	g
NH ₄ Cl	0.33	g
KH ₂ PO ₄	0.33	g
Yeast extract	0.50	g
Trace element solution (see medium 141)	10.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
NaHCO ₃	1.00	g
Vitamin solution (see medium 141)	10.00	ml
D-Fructose	10.00	g
Na ₂ S x 9 H ₂ O	0.70	g
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, vitamins, fructose and sulfide) and sparge medium with 100% N₂ gas for 30 - 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Before use add vitamins, fructose and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. Vitamins should be sterilized by filtration. Adjust pH of complete medium to 6.8 - 7.0, if necessary.

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