

507b. CARBOXYDOCELLA MANGANICA MEDIUM

KCl	0.33	g
MgCl ₂ x 6 H ₂ O	0.52	g
CaCl ₂ x 2 H ₂ O	0.29	g
NH ₄ Cl	0.33	g
KH ₂ PO ₄	0.33	g
Trace element solution SL-4 (see medium 14)	10.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	2.50	g
Na-pyruvate	1.00	g
Yeast extract	0.20	g
Vitamin solution (see medium 141)	10.00	ml
Distilled water	1000.00	ml

Dissolve ingredients except carbonate, pyruvate, yeast extract, vitamins and sulfide, then sparge medium with 100% CO₂ gas for 30 - 45 min to make it anoxic. Add carbonate and adjust pH to 6.0 - 6.5, then dispense medium under 100% CO₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add pyruvate, yeast extract and vitamins from sterile anoxic stock solutions prepared under 100% N₂ gas atmosphere. Stock solutions of pyruvate and vitamins are sterilized by filtration. After completing the medium adjust pH to 6.5 with a sterile anoxic stock solution of 1 N NaOH.