

507a. CARBOXYDOTHERMUS SIDEROPHILUS 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
Na ₂ -9,10-anthraquinone-2,6-disulfonate (AQDS)	8.25	g
Trace element solution SL-4 (see medium 14)	10.00	ml
NaHCO ₃	1.00	g
Yeast extract	0.20	g
Vitamin solution (see medium 141)	10.00	ml
Distilled water	1000.00	ml

Dissolve ingredients except bicarbonate, yeast extract, vitamins and sulfide, then 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. Add yeast extract, vitamins (sterilized by filtration) and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas atmosphere and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. After completing the medium adjust pH to 6.8 - 7.0. Inoculated vessels are pressurized with sterile **carbon monoxide** gas to 1 bar overpressure.