

1243. DESULFITOBACTERIUM AROMATICIVORANS MEDIUM

Fe(III)citrate	13.70	g
NaCl	1.00	g
MgCl ₂ x 6 H ₂ O	0.40	g
KH ₂ PO ₄	0.20	g
NH ₄ Cl	0.25	g
KCl	0.50	g
CaCl ₂ x 2 H ₂ O	0.15	g
Trace element solution (see medium 141)	10.00	ml
NaHCO ₃	2.50	g
Vitamin solution (see medium 141)	10.00	ml
Na-pyruvate	2.50	g
Na ₂ S x 9 H ₂ O	0.10	g
Distilled water	1000.00	ml

First dissolve ferric citrate by heating the water. After cooling to room temperature adjust the pH to 6.0 and dissolve the other ingredients (except bicarbonate, vitamins, pyruvate and sulfide). Sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Before inoculation add vitamins, pyruvate 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 mixture. Stock solutions of pyruvate and vitamins should be sterilized by filtration. Adjust pH of complete medium to 6.8 – 7.2, if necessary.