

649. DESULFUROMONAS SUCCINOXIDANS MEDIUM

KH ₂ PO ₄	1.0	g
NH ₄ Cl	0.3	g
MgSO ₄ x 7 H ₂ O	1.0	g
CaCl ₂ x 2 H ₂ O	0.1	g
MgCl ₂ x 6 H ₂ O	2.0	g
NaCl	20.0	g
Trace element solution SL-10 (see medium 320)	1.0	ml
Na-resazurin solution (0.1% w/v)	0.5	ml
Na ₂ CO ₃	1.5	g
Na-acetate	0.8	g
Na ₂ -fumarate	1.6	g
Vitamin solution (see medium 503)	1.0	ml
Na ₂ S x 9 H ₂ O	0.5	g
Distilled water	1000.0	ml

Dissolve ingredients except carbonate, acetate, fumarate, vitamins and sulfide. 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 acetate, fumarate, vitamins 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 atmosphere. Stock solutions of fumarate and vitamins should be sterilized by filtration. The pH of the complete medium should be 7.0 - 7.2.