

1041. DESULFUROMUSA FERRIREDUCTENS MEDIUM

Sea Salts (SIGMA)	35.0	g
Wolfe's mineral elixier (see medium 792)	1.0	ml
Yeast extract	1.0	g
Na-resazurin solution (0.1% w/v)	0.5	ml
NaHCO ₃	2.0	g
Na-acetate	1.6	g
Na ₂ -fumarate	3.2	g
Vitamin solution (see medium 141)	10.0	ml
Na ₂ S x 9 H ₂ O	0.3	g
Distilled water	1000.0	ml

Dissolve ingredients (except bicarbonate, acetate, fumarate, vitamins, and sulfide), then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. 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 bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Stock solutions of vitamins and fumarate should be sterilized by filtration. Adjust pH of the complete medium to 7.0-7.2, if necessary.