

1040. MARINE DESULFOVIBRIO COMPLEX 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
Na ₂ CO ₃	1.0	g
Na-DL-lactate	2.5	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 carbonate, lactate, vitamins and sulfide), then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving add lactate, vitamins and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and carbonate from a sterile stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. The vitamin solution should be sterilized by filtration. Adjust pH of the complete medium to 7.0-7.2, if necessary.

For [DSM 17682](#) reduce amount of Na-lactate to 0.6 g/l and replace vitamin solution of medium 141 with the vitamin solution of medium 521.

For [DSM 24848](#) and [DSM 29592](#) replace lactate with 3.0 g/l D-glucose added to the autoclaved medium from a sterile anoxic stock solution.