

63b: DESULFOVIBRIO MEDIUM (SEAWATER)

Solution A	980.00	ml
Solution B	10.00	ml
Solution C	10.00	ml

Dissolve ingredients of solution A, bring to the boil, then cool to room temperature while sparging with 100% N₂ gas. Add solutions B and C, adjust pH to 7.8 with NaOH, and distribute under 100% N₂ gas into anoxic Hungate-type tubes. During distribution continuously swirl the medium to keep the grey precipitate suspended. Autoclave 15 min at 121°C. Adjust pH of the complete medium to 6.8 - 7.0, if necessary.

Solution A

K ₂ HPO ₄	0.50	g
NH ₄ Cl	1.00	g
Na ₂ SO ₄	1.00	g
CaCl ₂ x 2 H ₂ O	0.10	g
MgSO ₄ x 7 H ₂ O	2.00	g
Na-DL-lactate	2.00	g
Yeast extract	1.00	g
Sodium resazurin (0.1% w/v)	0.50	ml
Sea water (filtered and aged)	980.00	ml

Alternatively to filtered aged sea water bottled water from Biomaris GmbH (Bremen, Germany) can be used.

Solution B

FeSO ₄ x 7 H ₂ O	0.50	g
Distilled water	10.00	ml

Solution C

Na-thioglycolate	0.10	g
Ascorbic acid	0.10	g
Distilled water	10.00	ml