

819. SEDIMINISPIROCHAETA SMARAGDINAE MEDIUM

NH ₄ Cl	1.0	g
K ₂ HPO ₄	0.3	g
KH ₂ PO ₄	0.3	g
MgCl ₂ x 6 H ₂ O	0.2	g
CaCl ₂ x 2 H ₂ O	0.1	g
KCl	0.2	g
NaCl	50.0	g
Yeast extract	5.0	g
Trace element solution (see medium 141)	10.0	ml
Na-resazurin solution (0.1% w/v)	0.5	ml
L-Cysteine-HCl x H ₂ O	0.3	g
Na ₂ CO ₃	1.0	g
Na ₂ S x 9 H ₂ O	0.3	g
Distilled water	1000.0	ml

Dissolve ingredients (except cysteine, carbonate and sulfide), sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Then, add cysteine, distribute medium under 80% N₂ and 20% CO₂ gas atmosphere in anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add sulfide from a sterile anoxic stock solution prepared under 100% N₂ gas atmosphere and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. Check pH of complete medium and adjust to pH 7.0, if necessary.