1577. SPOROHALOBACTER SALINUS MEDIUM

NH₄Cl 1.0 g
K₂HPO₄ 0.5 g
CaCl₂ x 2 H₂O 0.1 g
KCl 0.8 g
Na-acetate 0.5 g
NaCl 200.0 g
Yeast extract (OXOID) 0.5 g
Tryptone (BD Bacto) 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 H₂O 0.5 g
MgSO₄ 5.0 g
Na₂CO₃ 1.0 g
D-Glucose 4.0 g
Na₂S x 9 H₂O 0.5 g
Distilled water 1000.0 ml

Dissolve ingredients (except cysteine, magnesium sulfate, carbonate, glucose and sulfide), then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Add and dissolve cysteine, adjust pH to 6.0, dispense under 80% N₂ and 20% CO₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add magnesium sulfate, glucose 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. Prior to inoculation check pH of complete medium and adjust to 6.8 – 7.0, if necessary.

Note: This medium cannot be stored over a longer period and should be prepared freshly before use!