813. DESULFONATRONUM MEDIUM

KH₂PO₄ 0.2 g
MgCl₂ x 6 H₂O 0.1 g
NH₄Cl 1.0 g
KCl 0.2 g
Na₂SO₄ 5.0 g
NaCl 10.0 g
Trace element solution SL-10 (see medium 320) 1.0 ml
Yeast extract 1.0 g
Na-resazurin solution (0.1% w/v) 0.5 ml
Na₂CO₃ 3.5 g
Na₂S x 9 H₂O 0.5 g
Vitamin solution (see medium 141) 10.0 ml
Na-formate 4.0 g
Destilled water 1000.0 ml

Dissolve the ingredients (except carbonate, sulfide, vitamins and formate) and sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Add and dissolve carbonate and sulfide, then adjust pH to 8.8 - 9.0, dispense under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Before use add vitamins (sterilized by filtration) and formate from sterile anoxic stock solutions prepared under 100% N₂ gas.

For DSM 26308 replace formate with 2.0 g/l Na-L-lactate and adjust pH of the complete medium to 9.5.