1043. IGNISPHAERA MEDIUM

(NH₄)₂SO₄ 1.30 g
CaCl₂ x 2 H₂O 74.00 mg
MgSO₄ x 7 H₂O 0.28 g
KH₂PO₄ 0.28 g
Yeast extract (OXOID) 0.10 g
Trypticase peptone (BD BBL) 2.00 g
Trace element solution (see medium 141) 10.00 ml
Na-resazurin solution (0.1% w/v) 0.50 ml
FeCl₃ x 6 H₂O solution (0.1% w/v in 0.2 N HCl) 0.50 ml
L-Cysteine-HCl x H₂O 0.30 g
Soluble starch 2.00 g
Na₂S x 9 H₂O 0.30 g
Distilled water 1000.00 ml

Dissolve ingredients (except ferric chloride, cysteine, starch and sulfide), sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Add ferric chloride and solid cysteine, then adjust pH to 6.3. Dispense medium under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials (e.g., 20 ml medium in 50 ml bottles) and autoclave. Prior to inoculation add starch and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. Adjust pH of complete medium to 6.5, if necessary.