541. SULFUROSPIRILLUM MEDIUM

**Solution A:**
- KH$_2$PO$_4$ 1.36 g
- MgSO$_4$ x 7 H$_2$O 0.37 g
- CaCl$_2$ x 2 H$_2$O 0.10 g
- NH$_4$Cl 0.27 g
- Distilled water 900.00 ml

**Solution B:**
- Na$_2$CO$_3$ 1.50 g
- Distilled water 30.00 ml

**Solution C:**
- Trace element solution SL-10 (see medium 320) 2.00 ml

**Solution D:**
- Na$_2$-fumarate 4.00 g
- Distilled water 20.00 ml

**Solution E:**
- L-Cysteine-HCl x H$_2$O 0.07 g
- Distilled water 2.00 ml

Sparge solution A with 80% N$_2$ and 20% CO$_2$ gas mixture for 30 – 45 min to make it anoxic, distribute under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Solution B is autoclaved separately under 80% N$_2$ and 20% CO$_2$ gas atmosphere. Solutions C and E are autoclaved under 100% N$_2$ gas atmosphere. Solution D should be prepared under 100% N$_2$ gas and sterilized by filtration. To complete the medium appropriate amounts of solutions B to E are added to the sterile solution A in the sequence as indicated. Adjust pH of complete medium to 7.2, if necessary

For DSM 18149 supplement medium after autoclaving with 10.00 ml/l of an anoxic vitamin solution (see medium 141) sterilized by filtration. Prior to inoculation reduce the complete medium with 10 - 20 mg/l sodium dithionite (added from a 5% w/v stock solution freshly prepared under 100% N$_2$ gas and filter-sterilized) instead of using cysteine.

For DSM 22742 supplement medium with vitamins (see medium 141) and 0.50 g/l Na-thiosulfate added after autoclaving from anoxic stock solutions sterilized by filtration.

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