195. DESULFOBACTER MEDIUM

Solution A:
- Na$_2$SO$_4$ 3.00 g
- KH$_2$PO$_4$ 0.20 g
- NH$_4$Cl 0.30 g
- NaCl 21.00 g
- MgCl$_2$ x 6 H$_2$O 3.10 g
- KCl 0.50 g
- CaCl$_2$ x 2 H$_2$O 0.15 g
- Selenite-tungstate solution (see medium 385) 1.00 ml
- Na-resazurin solution (0.1% w/v) 0.50 ml
- Distilled water 920.00 ml

Solution B:
- Trace element solution SL-10 (see medium 320) 1.00 ml

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

Solution D:
- Na-acetate x 3 H$_2$O 2.50 g
- Distilled water 10.00 ml

Solution E:
- Vitamin solution (see medium 141) 10.00 ml

Solution F:
- Na$_2$S x 9 H$_2$O 0.40 g
- Distilled water 10.00 ml

Solution A is sparged with 80% N$_2$ and 20% CO$_2$ gas mixture to reach a pH below 6 (at least 30 min), then distributed under the same gas mixture into anoxic Hungate-type tubes or serum vials and autoclaved. Solutions B, D and F are autoclaved separately under 100% N$_2$ gas. Solution C is autoclaved under 80% N$_2$ and 20% CO$_2$ gas atmosphere. Solution E is prepared under 100% N$_2$ gas atmosphere and sterilized by filtration. To complete the medium appropriate amounts of solutions B to F are added to the sterile solution A in the sequence as indicated. Final pH of the medium should be 7.1 - 7.4.

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Note: Addition of 10 - 20 mg sodium dithionite per liter (e.g. from 5% (w/v) solution, freshly prepared under N₂ and filter-sterilized) may stimulate growth of some strains at the beginning. For transfers use 5 - 10% (v/v) inoculum.

For DSM 21856 Na-acetate is replaced with 0.90 ml/l 1-butanol added after autoclaving from a sterile anoxic stock solution prepared under 100% N₂ gas.