861. DESULFOFRIGUS MEDIUM

Solution A:
- NaCl 20.00 g
- Na₂SO₄ 4.00 g
- KH₂PO₄ 0.20 g
- NH₄Cl 0.25 g
- MgCl₂ x 6 H₂O 3.00 g
- CaCl₂ x 2 H₂O 0.15 g
- KBr 0.09 g
- KCl 0.50 g
- Na-resazurin solution (0.1% w/v) 0.50 ml
- Distilled water 940.00 ml

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

Solution C:
- Selenite-tungstate solution (see medium 385) 1.00 ml

Solution D:
- Na₂CO₃ 1.50 g
- Distilled water 30.00 ml

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

Solution F:
- Na-DL-lactate 2.50 g
- Distilled water 10.00 ml

Solution G:
- Na₂S x 9 H₂O 0.30 g
- Distilled water 10.00 ml

Solution H:
- Na₂S₂O₄ 0.03 g
- Distilled water 1.00 ml
Solution A is sparged with 80% N₂ and 20% CO₂ gas mixture to reach a pH below 6 (at least 30 - 45 min), then dispensed under the same gas atmosphere into serum vials (use at least bottles of 50 ml volume filled with 30 ml medium) and autoclaved. Solutions B, C, F and G are autoclaved separately under 100% N₂ gas. Solution D is prepared under 80% N₂ and 20% CO₂ gas atmosphere. Solutions E and H are prepared under 100% N₂ gas and sterilized by filtration. To complete the medium appropriate amounts of solutions B to H are added to the sterile solution A in the sequence as indicated. Final pH of the medium should be 7.0 – 7.2.

Note: For transfer of cultures use at least 10% (v/v) inoculum.

For DSM 12341 replace solution F with 10.00 ml of a 15% (v/v) Na-acetate solution.

For DSM 12344 replace solution F with 10.00 ml of a 15% (v/v) Na-propionate solution.