Microorganisms



509. SPIROCHAETA THERMOPHILA MEDIUM

Solution A: NaCl	15.00	g
MgCl ₂ x 6 H ₂ O KCI	2.30 0.50	g g
NH₄CI	0.30	g
KH_2PO_4 $CaCl_2 \times 2 H_2O$	0.20 0.03	g g
Selenite-tungstate solution (see medium 385)	1.00	ml
Yeast extract Na-resazurin solution (0.1% w/v)	1.00 0.50	g ml
Distilled water	920.00	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)	1.00	ml
Solution D:		
Vitamins solution (see medium 141)	10.00	ml
Solution E:		
Starch	1.00	g
Distilled water	10.00	ml
Solution F:		
$Na_2S \times 9 H_2O$	0.30	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 -45 min), then distributed under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclaved. Solution B is autoclaved separately under 80% N_2 and 20% CO_2 gas atmosphere. Solutions C, E and E are autoclaved under 100% N_2 gas atmosphere. Solution E is prepared under 100% E gas atmosphere and sterilized by filtration. To complete the medium appropriate amounts of solutions E to E are added to the sterile solution E in the sequence as indicated. Final pH of the medium should be 7.2 – 7.4.