337. SYNTROPHOCOCCUS SUCROMUTANS MEDIUM

Solution A:		
Mineral solution (see medium 335)	50.00	ml
Trace element solution (see medium 320)	1.00	ml
Rumen fluid, clarified (see medium 1310)	300.00	ml
Trypticase peptone (BD BBL) *or*		
Casitone peptone (BD Bacto)	5.00	g
Na-formate	0.60	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	560.00	ml
Solution B:		
$NaHCO_3$	2.50	g
Distilled water	50.00	ml
Solution C:		
Vitamin solution (see medium 503)	1.00	ml
Solution D:		
Lactose	5.00	g
Distilled water	25.00	ml
Solution E:		
L-Cysteine-HCl x H_2O	0.24	g
Distilled water	10.00	ml
Solution F:		
Na_2S x 9 H_2O	78.00	mg
Distilled water	1.00	ml

Sparge *solution A* with 80% N_2 and 20% CO_2 gas mixture for 30 - 45 min to make it anoxic. Adjust pH to 6.4 and dispense 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. *Solution C* is prepared under 100% N_2 gas atmosphere and sterilized by filtration. S*olutions D, E* and *F* are autoclaved separately under 100% N_2 gas. To complete the medium add appropriate amounts of s*olutions B - F* to the sterile *solution A* in the sequence as indicated. Adjust pH of the complete medium to 6.4 - 6.8, if necessary.
Note: Rumen fluid may be replaced by supplementing the medium with 200 µg/ml of crude egg yolk phosphatidylcholine (SIGMA, type IX-E).

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