671. THERMOANAEROBACTER (BA) MEDIUM

NH_4Cl	1.00	g
NaCl	0.10	g
$MgCl_2$ x 6 H_2O	0.10	g
$CaCl_2$ x 2 H_2O	0.05	g
K_2HPO_4 x 3 H_2O	0.40	g
Trace element solution (see medium 141)	10.00	ml
Yeast extract	0.75	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Na_2CO_3	1.00	g
Cellobiose	4.00	g
Vitamin solution (see medium 141)	10.00	ml
Na_2S x 9 H_2O	0.25	g
Distilled water	1000.00	ml

Dissolve ingredients (except carbonate, cellobiose, vitamins and sulfide), then sparge medium with 80% N_2 and 20% CO_2 gas mixture for 30 – 45 min to make it anoxic. Dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add cellobiose, vitamins and sulfide from sterile anoxic stock solutions prepared under 100% N_2 gas and carbonate from a sterile anoxic stock solution prepared under 80% N_2 and 20% CO_2 gas mixture. Stock solutions of cellobiose and vitamins should be sterilized by filtration. Adjust pH of complete medium to 7.0, if necessary.
Note: Some strains can be adapted to cellulose as substrate using 2.00 g/l Avicel microcrystalline cellulose (SIGMA).

For DSM 25963 and DSM 29083 use 4.00 g/l D-xylose (sterilized separately) instead of cellobiose.