

671. THERMOANAEROBACTER (BA) MEDIUM

NH ₄ Cl	1.00	g
NaCl	0.10	g
MgCl ₂ x 6 H ₂ O	0.10	g
CaCl ₂ x 2 H ₂ O	0.05	g
K ₂ HPO ₄ x 3 H ₂ O	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
NaHCO ₃	2.60	g
Cellobiose	4.00	g
Vitamin solution (see medium 141)	10.00	ml
Na ₂ S x 9 H ₂ O	0.25	g
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, cellobiose, vitamins and sulfide), then sparge medium with 80% N₂ and 20% CO₂ 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% N₂ gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ 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.