

1708. THERMOANAEROMYCES MEDIUM

K ₂ HPO ₄	0.350	g
KH ₂ PO ₄	0.230	g
NH ₄ Cl	0.500	g
MgSO ₄ x 7 H ₂ O	0.500	g
CaCl ₂ x 2 H ₂ O	0.050	g
NaCl	2.250	g
FeSO ₄ x 7 H ₂ O	0.002	g
Yeast extract	2.000	g
Lactose	1.000	g
Na-acetate	0.500	g
NaHCO ₃	0.500	g
L-cysteine-HCl x H ₂ O	0.500	g
Trace element solution SL-10 (see medium 1426)	1.000	ml
Na-resazurin solution (0.1% w/v)	1.000	ml
Distilled water	1000.00	ml

Add after autoclaving 0.25/50 ml of sterile Na₂S x 9 H₂O (stock solution 12 g/l)

Dissolve ingredients (except bicarbonate, trace elements, resazurin, cysteine and sulfide) and sparge medium with N₂ for 30 – 45 min to make it anoxic. Then add and dissolve L-cysteine and bicarbonate, adjust pH to 6.8 and dispense medium under N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials to 30% of their volume and autoclave.

The reducing agent is autoclaved separately under 100% N₂ gas atmosphere as concentrated solutions in tightly closed tubes. Trace elements are prepared under 100% N₂ gas atmosphere and sterilized by filtration. Appropriate volumes of the stock solutions are injected into the sterile medium with hypodermic syringes. Adjust pH of the complete medium to 6.8 – 7.0, if necessary.