

1011b. THERMOSIPHO MJ MEDIUM

KCl	0.33	g
MgSO ₄ x 7 H ₂ O	3.45	g
MgCl ₂ x 6 H ₂ O	2.75	g
NaCl	20.00	g
CaCl ₂ x 2 H ₂ O	0.15	g
NH ₄ Cl	0.25	g
K ₂ HPO ₄	0.15	g
Fe(NH ₄) ₂ (SO ₄) ₂ x 6 H ₂ O	0.01	g
Yeast extract	0.10	g
Trace elements solution SL6 (see medium 27)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	1.00	g
D-Glucose	2.00	g
Vitamins solution (see medium 141)	10.00	ml
L-Cysteine-HCl x H ₂ O	0.30	g
Na ₂ S x 9 H ₂ O	0.30	g
Distilled water	1000.00	ml

Dissolve ingredients except carbonate, glucose, vitamins, cysteine and sulfide, then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add vitamins, glucose, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas (vitamins are sterilized by filtration) and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Adjust pH of complete medium to 6.0 - 6.5, if necessary.