

794. THERMOTOGA HYPOGEA MEDIUM

NH ₄ Cl	1.0	g
K ₂ HPO ₄	0.3	g
KH ₂ PO ₄	0.3	g
MgCl ₂ x 6 H ₂ O	0.2	g
CaCl ₂ x 2 H ₂ O	0.1	g
KCl	0.1	g
Na-Acetat	0.5	g
NaCl	10.0	g
Yeast extract (BD Bacto)	2.0	g
Trypticase peptone (BD BBL)	2.0	g
Trace element solution (see medium 141)	10.0	ml
Na-resazurin solution (0.1% w/v)	0.5	ml
L-Cysteine-HCl x H ₂ O	0.5	g
NaHCO ₃	2.0	g
D-Xylose	3.0	g
Na ₂ S ₂ O ₃ x 5 H ₂ O	5.0	g
Na ₂ S x 9 H ₂ O	0.5	g
Distilled water	1000.0	ml

Dissolve ingredients (except cysteine, bicarbonate, xylose, thiosulfate and sulfide), then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Add and dissolve cysteine, adjust pH to 6.5, then dispense medium under 80% N₂ and 20% CO₂ gas mixture into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add thiosulfate 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. Xylose is prepared under 100% N₂ gas and sterilized by filtration. Adjust pH of complete medium to 7.0 – 7.2, if necessary.