

981. GEOTHERMOBACTER MEDIUM

NaCl	19.00	g
MgCl ₂ x 6 H ₂ O	9.00	g
MgSO ₄ x 7 H ₂ O	0.15	g
CaCl ₂ x 2 H ₂ O	0.30	g
KCl	0.50	g
KH ₂ PO ₄	0.42	g
(NH ₄) ₂ SO ₄	0.10	g
NaBr	0.05	g
SrCl ₂ x 6 H ₂ O	0.02	g
KNO ₃	1.01	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
NaHCO ₃	1.70	g
Yeast extract	0.10	g
DL-Malic acid	1.34	g
Vitamin solution (see medium 141)	10.00	ml
L-Cysteine-HCl x H ₂ O	0.05	g
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, yeast extract, malic acid, vitamins and cysteine) and sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Prior to inoculation add yeast extract, malic acid, vitamins (sterilized by filtration), and cysteine 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. The pH of the complete medium should be 6.2.