

**981. GEOTHERMOBACTER MEDIUM**

NaCl	19.00	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	9.00	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.15	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.30	g
KCl	0.50	g
KH <sub>2</sub> PO <sub>4</sub>	0.42	g
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	0.10	g
NaBr	0.05	g
SrCl <sub>2</sub> x 6 H <sub>2</sub> O	0.02	g
KNO <sub>3</sub>	1.01	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Na <sub>2</sub> CO <sub>3</sub>	1.00	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 <sub>2</sub> O	0.05	g
Distilled water	1000.00	ml

Dissolve ingredients (except carbonate, yeast extract, malic acid, vitamins and cysteine) and sparge medium with 80% N<sub>2</sub> and 20% CO<sub>2</sub> 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% N<sub>2</sub> gas and carbonate from a sterile anoxic stock solution prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture. The pH of the complete medium should be 6.2.