

**398. THERMOPLASMA VOLCANIUM MEDIUM**

KH <sub>2</sub> PO <sub>4</sub>	3.00	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	1.00	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.25	g
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	0.20	g
Yeast extract	1.00	g
Glucose	5.00	g
Sulfur (for anaerobic media only)	4.00	g
Distilled water	1000.00	ml

Adjust pH of the mineral base to about 2 with sulfuric acid and autoclave. Add glucose and yeast extract from filter-sterilized stock solutions. For DSM 4301 add 0.5 g/l meat extract (Merck); aerobic growth of that strain is sometimes difficult to achieve. Check pH to be 2 to 3.

*For anaerobic growth*, the acidified mineral base containing sulfur is filled into serum bottles (20 ml per 100 ml bottle) under N<sub>2</sub> + CO<sub>2</sub> (80 + 20) gas mixture. Then, the bottles are sterilized by tyndallisation. Yeast extract, glucose, and meat extract (for DSM 4301 only) are added from separately sterilized stock solutions.