

783. HYDROGENOTHERMUS HIRSCHII MEDIUM

MgSO ₄ x 7 H ₂ O	7.00	g
MgCl ₂ x 6 H ₂ O	5.50	g
KCl	0.65	g
NaBr	0.10	g
NaHCO ₃	2.00	g
NH ₄ Cl	0.15	g
K ₂ HPO ₄	0.15	g
CaCl ₂ x 2 H ₂ O	0.50	g
Trace element solution (see medium 141)	10.00	ml
Sulfur, powdered	0.50	g
Distilled water	1000.00	ml

Prepare the medium aerobically and adjust pH to 7.0 using H₂SO₄. Fill 20 ml medium into 100 ml serum bottles under H₂/CO₂ (80/20) gas and seal with a rubber stopper. Steam medium for 3 hours on each of 3 successive days. Before use add 100 µl of a sterile CaCO₃ solution (10%). Give an atmosphere of H₂/CO₂ with an overpressure of two atmospheres and 20 ml filter-sterilized air. Incubate under shaking at 60°C.