

1513. SULFURIMONAS GOTLANDICA MEDIUM

NaCl	5.55	g
MgCl ₂ x 6 H ₂ O	2.29	g
CaCl ₂ x 2 H ₂ O	0.34	g
KCl	0.15	g
Na ₂ SO ₄	0.91	g
KNO ₃	1.01	g
HEPES buffer (SIGMA)	2.38	g
NH ₄ Cl	50.00	mg
SrCl ₂ solution (0.1% w/v)	8.00	ml
H ₃ BO ₃ solution (0.1% w/v)	6.00	ml
NaF solution (0.1% w/v)	4.00	ml
K ₂ HPO ₄ solution (0.1% w/v)	1.00	ml
Trace elements solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
NaHCO ₃	0.20	g
Vitamin solution (see medium 141)	10.00	ml
Na ₂ S ₂ O ₃ x 5 H ₂ O	2.48	g
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, vitamins and thiosulfate) and adjust pH to 7.3. Sparge medium with 100% N₂ gas for 30 - 45 min to make it anoxic, then dispense under same gas atmosphere into anoxic serum vials (e.g., Balch-type tubes) and autoclave. Add vitamins and thiosulfate 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. Stock solutions of vitamins and thiosulfate should be sterilized by filtration. Adjust pH of the complete medium to 7.3 - 7.5, if necessary. After inoculation pressurize vials to 0.7 bar overpressure with sterile 100% N₂ gas.