

1700: GEOBACTER AMMONIFICANS MEDIUM

KH ₂ PO ₄	0.80	g
K ₂ HPO ₄	0.80	g
KNO ₃	0.50	g
Na-acetate	0.80	g
L-Methionine (1% w/v)	0.80	ml
Trace element solution SL-10	1.00	ml
Na-thioglycolate	0.10	g
Ascorbic acid	0.10	g
CaCl ₂ x 2 H ₂ O	0.02	g
MgSO ₄ x 7 H ₂ O	0.15	g
Na ₂ CO ₃	1.00	g
Distilled water	1000.00	ml

Dissolve all ingredients except thioglycolate, ascorbic acid, calcium chloride, magnesium sulfate and carbonate, adjust pH to 6.7 and then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic. Add and dissolve thioglycolate and ascorbic acid, then dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add calcium chloride and magnesium sulfate from sterile anoxic stock solutions prepared under 100% N₂ gas and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂. Adjust pH of complete medium to pH 7.0 - 7.2, if necessary.

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg
Distilled water	990.00	ml

First dissolve FeCl₂ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.