1249: GEOALKALIBACTER SUBTERRANEUS MEDIUM

NaCl	17.00	g
$NaNO_3$	2.55	g
$MgCl_2$ x 6 H_2O	4.50	g
$CaCl_2$ x 2 H_2O	0.35	g
NH_4Cl	1.00	g
KH_2PO_4	0.08	g
Trace element solution SL-10	1.00	ml
Selenite-tungstate solution	1.00	ml
Na_2CO_3	1.50	g
Na-acetate	1.00	g
Yeast extract	3.00	g
Distilled water	1000.00	ml

Dissolve ingredients (except carbonate, acetate and yeast extract), then sparge medium with 80% N_2 and 20% CO_2 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 acetate and yeast extract from sterile anoxic stock solutions prepared under 100% N_2 gas and carbonate from a sterile anoxic stock solution prepared under 80% N_2 and 20% CO_2 gas mixture. The pH of the complete medium should be at 7.0 - 7.2.

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
$FeCl_2$ x 4 H_2O	1.50	g
$ZnCl_2$	70.00	mg
$MnCl_2$ x 4 H_2O	100.00	mg
H_3BO_3	6.00	mg
$CoCl_2$ x 6 H_2O	190.00	mg
$CuCl_2$ x 2 H_2O	2.00	mg
$NiCl_2$ x 6 H_2O	24.00	mg
Na_2MoO_4 x 2 H_2O	36.00	mg
Distilled water	990.00	ml

First dissolve $FeCl_2$ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

Selenite-tungstate solution (from medium 385)

NaOH	0.50	g
Na_2SeO_3 x 5 H_2O	3.00	mg
Na_2WO_4 x 2 H_2O	4.00	mg

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Distilled water	1000.00	ml