1516. THERMOFILUM MEDIUM

Mineral Salts Solution:

KH2PO4	0.33	g
NH4Cl	0.33	g
MgCl2	0.33	g
CaCl2	0.33	g
KCl	0.33	g
Glucose	2.00	g
Yeast extract	0.10	g
Trace Element Solution (see below)	1.00	ml
Distilled water	1000.00	ml

Trace Element Solution:

(NH4)2SO4FeSO4 x 6 H2O	784.0	mg
NiCl2 x 2 H2O	225.0	mg
$CoCl_2$ x 6 H_2O	38.0	mg
MnCl2 x 4H2O	99.0	mg
ZnSO4 x 7 H2O	144.0	mg
Na2SeO4	95.0	mg
Na2WO4 x 2H2O	33.0	mg
Na2MoO4 x 2 H2O	24.0	mg
H3BO3	6.0	mg
CuCl2 x 2 H2O	2.0	mg
Distilled water	1000.0	ml

Prepare the liquid medium. Boil the medium in a water bath and cool under N_2 to room temperature. Adjust to pH 5.8-6.2. Dispense the medium into Hungate tubes or serum bottles under gassing with N_2. Sterilize by autoclaving. Before inoculation add from sterile stock solutions:

Filtrate of Desulfurococcus kamchatkensis (DSM18924)(see below)	10.0 ml
Vitamin Solution (see medium 141)	10.0 ml
Na_2SxH_2O	0.3 g

Filtrate:

Strain DSM 18924 was inoculated into anaerobic tube, containing 10ml of the medium mentioned above. Glucose (2g/l) and yeast extract (0,6g/l) were added as substrate. After 3 days of incubation culture was filtered throuth 0,22nm filter. Filtered culture broth is used for the cultivation of the strain at a concentration of 1% as a source of growth factor