

**1230. THIOALKALIMICROBIUM MICROAEOPHILUM MEDIUM****Mineral base:**

NaCl	6.0	g
K <sub>2</sub> HPO <sub>4</sub>	2.0	g
NaHCO <sub>3</sub>	40.0	g
KNO <sub>3</sub>	0.5	g
Distilled water	1000.0	ml

Adjust the pH to 9.0 – 9.5 with 2M KOH. Dispense into closed vessels (i.e. a serum tube or bottle) with a liquid to air ratio of about 1:10. Flush the gas phase with nitrogen and add 2% oxygen. Sterilize at 120°C 20 min.

**Trace element solution:**

EDTA	5.0	mg
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	2.0	mg
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	100.0	mg
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	30.0	mg
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	200.0	mg
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	20.0	mg
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	30.0	mg
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	10.0	mg
H <sub>3</sub> BO <sub>3</sub>	300.0	mg
Distilled water	1000.0	ml

Final pH should be 3, add HCl if needed. Sterilization - 120°C 20 min.

*After sterilization add from sterile stock solutions:*

Trace elements solution	1	ml
MgCl <sub>2</sub> x 6 H <sub>2</sub> O (200.0 g/l)	1	ml
(a white colloid will form which will rapidly dissolve after mixing)		
Sodium thiosulfate pentahydrate (4 M – 992 g/l) -	5	ml

Incubate statically until growth occurs, then shake at 100 rpm.