925: ALKALIPHILIC SULPHUR RESPIRING STRAINS MEDIUM

This recipe contains strain-specific modifications for *Thioalkalispira microaerophila* DSM 14786 *

Final pH: 10.0
Final volume: 1000 ml

Na_2CO_3	20.00	g
$NaHCO_3$	10.00	g
NaCl	5.00	g
K_2HPO_4	1.00	g
Trace element solution	2.00	ml/l
Distilled water	1000.00	ml

1. Sterilize at 110°C 20 min in a closed vessel (i.e. a serum tube or bottle). pH after sterilization will about 10.

2. After sterilization add:

$MgCl_2$ x 6 H_2O (200.0 g/l)	1.00	ml/l

3. (a white colloid will form which will rapidly dissolve after mixing)

Sodium thiosulphate	30.00	mM
NH_4Cl	5.00	mM

* Thioalkalispira microaerophila, ALEN 1 = DSM 14786. The strain is grown under nitrogen with 1% oxygen in the gas phase. The strain grows slowly with a potential lag phase of several days. Use 30 mM thiosulphate and up to a maximum of 5 mM NH_4Cl

Trace element solution (from medium 925)

EDTA	5.00	mg
$FeSO_4$ x 7 H_2O	2.00	mg
$ZnSO_4$ x 7 H_2O	100.00	mg
$MnCl_2$ x 4 H_2O	30.00	mg
$CoCl_2$ x 6 H_2O	200.00	mg
$NiCl_2$ x 6 H_2O	20.00	mg
Na_2MoO_4 x 2 H_2O	30.00	mg
$CuCl_2$ x 2 H_2O	10.00	mg
H_3BO_3	300.00	mg
Distilled water	1000.00	ml

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