926: ALKALIPHILIC THERMOCOCCUS MEDIUM

This recipe contains strain-specific modifications for *Thermococcus acidaminovorans* DSM 11906 *

Final volume: 2000 ml

NaCl	27.70	g
$MgSO_4$ x 7 H_2O	7.00	g
$MgCl_2$ x 6 H_2O	5.50	g
KCl	0.65	g
NaBr	0.10	g
$NaHCO_3$	0.32	g
K_2HPO_4	1.00	g
$CaCl_2$ x 2 H_2O	0.05	mg
KI	15.00	mg
H_3BO_3	0.03	g
Modified Wolin's mineral solution II	20.00	ml
Casamino acids	0.20	%
Distilled water	2000.00	ml

1. Prepare the medium anaerobically under nitrogen. Do not adjust the pH.

2. Prepare separate anaerobic stock solutions of, Casamino acids(10%), Yeast extract (10%), and glycine (2M = 150 g/l). A 0.5M polysulphide solution is prepared by dissolving 12.0 g Na_2S x 9 H_2O in oxygen free water, followed by adding 1.6 g sulphur - the solution will be dark yellow.

* To the sterile, anaerobic, mineral medium add 0.08 ml polysulphide/10 ml medium, casamino acids to a final concentration of 0.2%. The may be precipitation of material and the medium will turn pale yellow due to the addition of the polysulphide. The colour will disappear as the strain grows.

Modified Wolin's mineral solution II (from medium 700)

Nitrilotriacetic acid	1.500	g
$MgSO_4$ x 7 H_2O	3.000	g
$MnSO_4$ x H_2O	0.500	g
NaCl	1.000	g
$FeSO_4$ x 7 H_2O	0.100	g
$CoSO_4$ x 7 H_2O	0.180	g
$CaCl_2$ x 2 H_2O	0.100	g
$ZnSO_4$ x 7 H_2O	0.180	g
$CuSO_4$ x 5 H_2O	0.010	g
$AlK(SO_4)_2$ x 12 H_2O	0.020	g

H_3BO_3	0.010	g
Na_2MoO_4 x 2 H_2O	0.010	g
$NiCl_2$ x 6 H_2O	0.025	g
Na_2SeO_3 x 5 H_2O	0.300	mg
Distilled water	1000.000	ml

First dissolve nitrilotriacetic acid and adjust pH to 6.5 with KOH, then add minerals. Adjust final to pH 7.0 with KOH.