1058: THIOHALOPHILUS MEDIUM

NaCl	120.00	g
K_2HPO_4	1.50	g
NH_4Cl	0.50	g
Trace elements solution (Pfennig & Lippert,1966)	1.00	ml
$CaCl_2$ x 2 H_2O	0.05	g
$MgSO_4$ x 7 H_2O	0.50	g
$Na_2S_2O_3$ x 5 H_2O	5.00	g
$NaHCO_3$	5.00	g
Seven vitamins solution	1.00	ml
Distilled water	1000.00	ml

1. Dissolve sodium chloride, potassium hydrogenphosphate and ammonium chloride, then sparge solution with 80% N_2 and 20% CO_2 gas mixture for at least 30 - 45 min to remove dissolved oxygen and to saturate the solution with CO_2. Dispense solution in vials suitable for anaerobic cultures (e.g. Balch-type tubes) to 50% volume under air atmosphere. Close vials with butyl rubber septa to prevent free exchange of oxygen with the external atmosphere and autoclave. Add trace elements, calcium chloride, magnesium sulfate, thiosulfate, bicarbonate and vitamins from sterile stock solutions and adjust pH of the medium to 7.5 - 7.8 using a sterile stock solution of sodium carbonate (5% w/v).

2. Note: Use at least 10% (v/v) as inoculum.

Trace elements solution (Pfennig & Lippert,1966) (from medium 1369)

EDTA	5.00	g
$FeSO_4$ x 7 H_2O	2.20	g
$ZnSO_4$ x 7 H_2O	0.10	g
$MnCl_2$ x 4 H_2O	0.03	g
H_3BO_3	0.03	g
$CoCl_2$ x 6 H_2O	0.20	g
$CuCl_2$ x 2 H_2O	0.03	g
$NiCl_2$ x 6 H_2O	0.03	g
Na_2MoO_4 x 2 H_2O	0.03	g
Distilled water	1000.00	ml

pH 3.0-4.0

Seven vitamins solution (from medium 503)

Vitamin B_{12}	100.00	mg
p-Aminobenzoic acid	80.00	mg
D-(+)-biotin	20.00	mg
Nicotinic acid	200.00	mg

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Calcium pantothenate	100.00	mg
Pyridoxine hydrochloride	300.00	mg
Thiamine-HCl x 2 H_2O	200.00	mg
Distilled water	1000.00	ml