586: THAUERA AROMATICA MEDIUM

This recipe contains strain-specific modifications for *Thauera aromatica* DSM 6984 *

Final pH: 7.2
Final volume: 1015 ml

Solution A	500.00	ml
Solution B	500.00	ml
Trace element solution SL-10	10.00	ml
Vitamin solution	5.00	ml

Adjust solutions A and B to pH 7.2, autoclave separately and combine after cooling. Add 10 ml of sterile trace elements solution SL-10 (see below) and 5 ml vitamin solution (see below).

* Aerobic without nitrate or anaerobic with nitrate

Solution A

KH_2PO_4	0.816	g
K_2HPO_4	5.920	g
Distilled water	500.000	ml

Solution B

NH_4Cl	0.530	g
$MgSO_4 \times 7\ H_2O$	0.200	g
KNO_3	2.000	g
$CaCl_2 \times 2\ H_2O$	0.025	g
Na-benzoate	0.720	g
Distilled water	500.000	ml

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
$FeCl_2 \times 4\ H_2O$	1.50	g
$ZnCl_2$	70.00	mg
$MnCl_2 \times 4\ H_2O$	100.00	mg
H_3BO_3	6.00	mg
$CoCl_2 \times 6\ H_2O$	190.00	mg
$CuCl_2 \times 2\ H_2O$	2.00	mg
$NiCl_2 \times 6\ H_2O$	24.00	mg
$Na_2MoO_4 \times 2\ H_2O$	36.00	mg
Distilled water	990.00	ml

First dissolve $FeCl_2$ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

Vitamin solution (from medium 461)

Vitamin B_{12}	50.00	mg
Pantothenic acid	50.00	mg
Riboflavin	50.00	mg
Pyridoxamine hydrochloride	10.00	mg
Biotin	20.00	mg
Folic acid	20.00	mg
Nicotinic acid	25.00	mg
Nicotine amide	25.00	mg
alpha-lipoic acid	50.00	mg
p-Aminobenzoic acid	50.00	mg
Thiamine-HCl x 2 H_2O	50.00	mg
Distilled water	1000.00	ml

Stir for some hours, filter sterilize the solution.