

586: THAUERA AROMATICA MEDIUM

This recipe contains strain-specific modifications for *Thauera phenylacetica* DSM 14743 *

Final pH: * 7.3

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).

* PH 7.3; anaerobic or aerobic. For aerobic growth, omit nitrate

Solution A

KH ₂ PO ₄	0.816	g
K ₂ HPO ₄	5.920	g
Distilled water	500.000	ml

Solution B

NH ₄ Cl	0.530	g
MgSO ₄ x 7 H ₂ O	0.200	g
KNO ₃	2.000	g
CaCl ₂ x 2 H ₂ O	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 x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg
Distilled water	990.00	ml

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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 ₂ O	50.00	mg
Distilled water	1000.00	ml

Stir for some hours, filter sterilize the solution.