

1315: ANAEROBIC THAUERA MEDIUM

This recipe contains strain-specific modifications for *Acidovorax* sp. DSM 15015 *

Final pH: 7.1 - 7.5

Final volume: 1000 ml

KNO ₃	0.85	g
NaHCO ₃	2.52	g
CaCl ₂	0.01	g
MgSO ₄ x 7 H ₂ O	0.50	g
MnSO ₄	0.01	g
NH ₄ Cl	0.30	g
NaCl	0.05	g
Selenite and tungstate solution	2.00	ml
Distilled water	884.00	ml
Phosphate solution	100.00	ml
Acetate solution 98.0 g/L	10.00	ml
Vitamin solution	5.00	ml
Trace element solution SL-10	1.00	ml
3,4-dihydroxybenzoate	0.77	g/l

Distribute to gas tight vessels, gas with 90% N₂ +10% CO₂ to achieve anaerobic conditions and autoclave. After cooling, add the phosphate solution, substrate solution, vitamin solution and trace element solution. After mixing, pH should be 7.1 - 7.5.

* Replace fatty acid by 3,4-dihydroxybenzoate (0.77 g/l)

Phosphate solution

Na ₂ HPO ₄ x 2 H ₂ O	1.45	g
KH ₂ PO ₄	0.25	g
Distilled water	100.00	ml

Distribute to gas tight vessels under N₂, autoclave.

Acetate solution 98.0 g/L

K-acetate	9.80	g
Distilled water	100.00	ml

Filter sterilize and gas with N₂. For strains [DSM 12141](#), [DSM 12142](#), [DSM 11243](#) and [DSM 12144](#), acetate may be replaced by Na-capronate (stock solution 2.76 g/100 ml).

1315: ANAEROBIC THAUERA MEDIUM

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.

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

First dissolve FeCl₂ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

Selenite and tungstate solution

Distilled water	1000.00	ml
NaOH	0.50	g
Na ₂ SeO ₃ x 5 H ₂ O	3.00	mg
Na ₂ WO ₄ x 2 H ₂ O	4.00	mg

First dissolve NaOH, subsequently the metal salts. Distribute to gas tight vessels under N₂, autoclave.