

874: FERROPLASMA ACIDIPHILUM MEDIUM

This recipe contains strain-specific modifications for *Acidiplasma aeolicum* DSM 18409 *

Final pH: 1.6 - 1.8

Final volume: 1000 ml

Solution A	930.00	ml
Solution B	50.00	ml
Solution C	10.00	ml
Solution D	10.00	ml

Add solutions B and C to solution A, adjust pH of the combined solution to 1.6 - 1.8 with H₂SO₄, then sterilize using membrane filter and dispense in sterile culture vessels. Prior to use, add the appropriate volume of solution D sterilized by autoclaving.

* Replace trace elements with 1.00 ml/l of trace element solution SL-10 (see medium 320). Supplement medium prior to inoculation with 1.50 g/l potassium tetrathionate added from a stock solution sterilized by filtration.

Solution A		
MgSO ₄ x 7 H ₂ O	0.40	g
(NH ₄) ₂ SO ₄	0.20	g
KCl	0.10	g
K ₂ HPO ₄	0.10	g
Potassium tetrathionate	1.50	g
Distilled water	930.00	ml

Solution B		
FeSO ₄ x 7 H ₂ O	25.00	g
H ₂ SO ₄ (1 N)	40.00	ml
Distilled water	10.00	ml

Solution C		
Trace element solution	10.00	ml
Trace element solution SL-10	1.00	ml

Solution D		
Yeast extract (OXOID)	0.20	g
Distilled water	10.00	ml

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Trace element solution (from medium 158)

FeCl ₃ x 6 H ₂ O	1.93	g
MnCl ₂ x 4 H ₂ O	0.18	g
Na ₂ B ₄ O ₇ x 10 H ₂ O	0.45	g
ZnSO ₄ x 7 H ₂ O	22.00	mg
CuCl ₂ x 2 H ₂ O	5.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	3.00	mg
VOSO ₄ x 5 H ₂ O	3.80	mg
CoSO ₄ x 7 H ₂ O	2.00	mg
Distilled water	1000.00	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

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