

874: FERROPLASMA ACIDIPHILUM MEDIUM

This recipe contains strain-specific modifications for *Acidiplasma cupricumulans* DSM 16651 *

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 H_2SO_4 , then sterilize using membrane filter and dispense in sterile culture vessels. Prior to use, add the appropriate volume of solution D sterilized by autoclaving.

* Supplement medium prior to inoculation with 2.0 g/l potassium tetrathionate added from a stock solution sterilized by filtration. Incubate without agitation.

Solution A

$\text{MgSO}_4 \times 7 \text{ H}_2\text{O}$	0.40	g
$(\text{NH}_4)_2\text{SO}_4$	0.20	g
KCl	0.10	g
K_2HPO_4	0.10	g
Potassium tetrathionate	2.00	g
Distilled water	930.00	ml

Solution B

$\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$	25.00	g
H_2SO_4 (1 N)	40.00	ml
Distilled water	10.00	ml

Solution C

Trace element solution	10.00	ml
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Solution D

Yeast extract (OXOID)	0.20	g
Distilled water	10.00	ml

Trace element solution (from medium 158)

$\text{FeCl}_3 \times 6 \text{ H}_2\text{O}$	1.93	g
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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