



How to revive and cultivate *Acidithiobacillus ferrooxidans*

Put about 0.5 ml of JCM medium No. 92 into the ampoule with a sterile Pasteur pipette. Suspend the cells and inoculate the suspension into 10 ml of the medium dispensed to a test tube (ϕ 18 mm). After 3-day pre-cultivation by shaking at 30°C, transfer 1 ml of the culture broth to fresh medium and cultivate by shaking. Growth of the organism can be estimated by color change of the medium to dark reddish brown. Confirm the growth microscopically, too.

JCM Medium No. 92	9K MEDIUM
K ₂ HPO ₄	0.5 g
(NH ₄) ₂ SO ₄	3.0 g
KCl	0.1 g
MgSO ₄ ·7H ₂ O	0.5 g
FeSO ₄ ·7H ₂ O	50.0 g
Ca(NO ₃) ₂	10.0 mg
10 N H ₂ SO ₄	1.0 ml
Distilled water	1.0 L

Adjust pH to 3.0 with H₂SO₄ solution, if necessary.

Prepared medium should be used within 2 weeks.