

## JAPAN COLLECTION OF MICROORGANISMS

Microbe Division, RIKEN BioResource Research Center 3-1-1 Koyadai, Tsukuba, Ibaraki 305-0074, Japan

Phone : +81 29 836 9556 Fax : +81 29 836 9561 E-mail : inquiry.jcm@riken.jp

## 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 ( $\phi$ 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 <sub>2</sub> HPO <sub>4</sub>	0.5 g
(NH4)2SO4	3.0 g
KCI	0.1 g
MgSO <sub>4</sub> ·7H <sub>2</sub> O	0.5 g
FeSO <sub>4</sub> ·7H <sub>2</sub> O	50.0 g
Ca(NO <sub>3</sub> ) <sub>2</sub>	10.0 mg
10 N H2SO4	1.0 ml
Distilled water	1.0 L
Adjust pH to 3.0 with H <sub>2</sub> SO <sub>4</sub> solution, if	
necessary.	
Prepared medium should be used within 2 weeks.	