

## 71: ACIDITHIOBACILLUS THIOOXIDANS MEDIUM

This recipe contains strain-specific modifications for *Acidithiobacillus ferrooxidans* DSM 585 \*

Final pH: 4.4 - 4.7

Final volume: 1000 ml

|                                                                        |                 |              |
|------------------------------------------------------------------------|-----------------|--------------|
| KH <sub>2</sub> PO <sub>4</sub>                                        | 3.00            | g            |
| MgSO <sub>4</sub> x 7 H <sub>2</sub> O                                 | 0.50            | g            |
| (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>                        | 3.00            | g            |
| CaCl <sub>2</sub> x 2 H <sub>2</sub> O                                 | 0.25            | g            |
| <del>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> x 5 H<sub>2</sub>O</del> | <del>5.00</del> | <del>g</del> |
| K <sub>2</sub> S <sub>4</sub> O <sub>6</sub>                           | 5.00            | g            |
| Distilled water                                                        | 1000.00         | ml           |

1. Prepare the medium without thiosulfate, adjust pH to 4.4 - 4.7 and autoclave at 121°C for 15 min. Sterilize thiosulfate separately by filtration and add after autoclaving.
2. Note: Incubate statically without shaking.

\* Replace thiosulfate with 5.00 g/l tetrathionate (K<sub>2</sub>S<sub>4</sub>O<sub>6</sub>) added from a stock solution sterilized by filtration.