

1234. ACIDITHIOBACILLUS FERRIVORANS MEDIUM

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|---|---------|----|
| Na ₂ SO ₄ | 1.40 | g |
| (NH ₄) ₂ SO ₄ | 3.00 | g |
| KCl | 0.10 | g |
| MgSO ₄ x 7 H ₂ O | 0.50 | g |
| K ₂ HPO ₄ | 0.05 | g |
| Ca(NO ₃) ₂ x 4 H ₂ O | 14.00 | mg |
| (NH ₄) ₂ Ni(SO ₄) x 6 H ₂ O | 0.02 | g |
| Trace elements solution (see medium 141) | 10.00 | ml |
| K ₂ S ₄ O ₆ | 0.80 | g |
| FeSO ₄ x 7 H ₂ O | 28.00 | mg |
| Distilled water | 1000.00 | ml |

Dissolve ingredients (except tetrathionate and ferrous sulfate), adjust pH to 2.5 with H₂SO₄ and autoclave. After cooling, add tetrathionate from a 100 mM stock solution and FeSO₄ from a 10 mM stock solution (prepared in water adjusted to pH 2.0 with H₂SO₄). Both solutions should be freshly prepared and sterilized by filtration.

For DSM 27026 omit tetrathionate and ferrous sulfate. Add 0.90 g/l D-fructose as substrate after autoclaving from a sterile stock solution. Adjust pH of complete medium to 3.5.

For DSM 104037 omit tetrathionate and ferrous sulfate. Add 0.30 g/l D-glucose as substrate after autoclaving from a sterile stock solution. Adjust pH of complete medium to 4.5.