

**271: ACIDITHIOBACILLUS (APH) MEDIUM**

(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	2.00	g
K <sub>2</sub> HPO <sub>4</sub>	0.50	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.50	g
KCl	0.10	g
Ca(NO <sub>3</sub> ) <sub>2</sub> x 4 H <sub>2</sub> O	0.02	g
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	8.00	g
Distilled water	1000.00	ml

1. Dissolve ingredients and adjust pH to 2.0 with 10 N H<sub>2</sub>SO<sub>4</sub>. Sterilize the medium by filtration. Alternatively, autoclave separately the basal medium (pH adjusted to 2.0) and the ferrous sulfate (8.00 g FeSO<sub>4</sub> x 7 H<sub>2</sub>O in 50 ml 0.1 N H<sub>2</sub>SO<sub>4</sub>, pH not adjusted, in a sealed vessel under nitrogen gas atmosphere).

2. Note: Incubate statically without shaking.

For DSM 11478: Omit the ferrous sulfate from the medium and add 10.00 g/l elemental sulfur as substrate. For sterilization place the sulfur in screw-capped tubes, add 1-2 drops of distilled water and incubate on 3 successive days for 3 h at 90-100°C in a water bath. Before use, aseptically layer the sulfur onto the surface of autoclaved liquid basal medium. Adjust pH of complete medium to 2.0.

For DSM 24413: Omit the ferrous sulfate from the medium and add 10.00 g/l elemental sulfur as substrate. For sterilization place the sulfur in screw-capped tubes, add 1-2 drops of distilled water and incubate on 3 successive days for 3 h at 90-100°C in a water bath. Before use, aseptically layer the sulfur onto the surface of autoclaved liquid basal medium. Adjust pH of complete medium to 2.5.