

**874: FERROPLASMA ACIDIPHILUM MEDIUM**

|                   |        |    |
|-------------------|--------|----|
| <b>Solution A</b> | 930.00 | ml |
| <b>Solution B</b> | 50.00  | ml |
| <b>Solution C</b> | 10.00  | ml |
| <b>Solution D</b> | 10.00  | ml |

Add solutions B and C to solution A, adjust pH of the combined solution to 1.6 - 1.8 with  $\text{H}_2\text{SO}_4$ , then sterilize using membrane filter and dispense in sterile culture vessels. Prior to use, add the appropriate volume of solution D sterilized by autoclaving.

For DSM 16651: Supplement medium prior to inoculation with 2.0 g/l potassium tetrathionate added from a stock solution sterilized by filtration. Incubate without agitation.

For DSM 18409: Replace trace elements with 1.00 ml/l of trace element solution SL-10 (see medium 320). Supplement medium prior to inoculation with 1.50 g/l potassium tetrathionate added from a stock solution sterilized by filtration.

**Solution A**

|  |        |    |
|--|--------|----|
| $\text{MgSO}_4 \times 7 \text{ H}_2\text{O}$ | 0.40   | g  |
| $(\text{NH}_4)_2\text{SO}_4$                 | 0.20   | g  |
| KCl  | 0.10   | g  |
| $\text{K}_2\text{HPO}_4$                     | 0.10   | g  |
| Distilled water                              | 930.00 | ml |

**Solution B**

|  |       |    |
|--|-------|----|
| $\text{FeSO}_4 \times 7 \text{ H}_2\text{O}$ | 25.00 | g  |
| $\text{H}_2\text{SO}_4$ (1 N)                | 40.00 | ml |
| Distilled water                              | 10.00 | ml |

**Solution C**

|                               |       |    |
|-------------------------------|-------|----|
| <b>Trace element solution</b> | 10.00 | ml |
|-------------------------------|-------|----|

**Solution D**

|                       |       |    |
|-----------------------|-------|----|
| Yeast extract (OXOID) | 0.20  | g  |
| Distilled water       | 10.00 | ml |

**Trace element solution** (from medium 158)

|  |      |   |
|--|------|---|
| $\text{FeCl}_3 \times 6 \text{ H}_2\text{O}$ | 1.93 | g |
| $\text{MnCl}_2 \times 4 \text{ H}_2\text{O}$ | 0.18 | g |

## 874: FERROPLASMA ACIDIPHILUM MEDIUM

|   |         |    |
|---|---------|----|
| $\text{Na}_2\text{B}_4\text{O}_7 \times 10 \text{ H}_2\text{O}$ | 0.45    | g  |
| $\text{ZnSO}_4 \times 7 \text{ H}_2\text{O}$                    | 22.00   | mg |
| $\text{CuCl}_2 \times 2 \text{ H}_2\text{O}$                    | 5.00    | mg |
| $\text{Na}_2\text{MoO}_4 \times 2 \text{ H}_2\text{O}$          | 3.00    | mg |
| $\text{VOSO}_4 \times 5 \text{ H}_2\text{O}$                    | 3.80    | mg |
| $\text{CoSO}_4 \times 7 \text{ H}_2\text{O}$                    | 2.00    | mg |
| Distilled water   | 1000.00 | ml |