

## 939: METHYLOTROPHIC ARTHROBACTER AND HYPHOMICROBIUM M

This recipe contains strain-specific modifications for *Hyphomicrobium sulfonivorans* DSM 13863 \*

Final pH: 7.2 - 7.5

Final volume: 1000 ml

|   |             |          |
|---|-------------|----------|
| Na <sub>2</sub> HPO <sub>4</sub> x 2 H <sub>2</sub> O | 7.90        | g        |
| KH <sub>2</sub> PO <sub>4</sub>                       | 1.50        | g        |
| NH <sub>4</sub> Cl                                    | 0.80        | g        |
| MgSO <sub>4</sub> x 7 H <sub>2</sub> O                | 0.10        | g        |
| <b>Trace elements solution</b>                        | 10.00       | ml       |
| Distilled water                                       | 1000.00     | ml       |
| Methanol  | 10.00       | ml       |
| <b>Methanol</b>                                       | <b>1.00</b> | <b>%</b> |

1. Final pH 7.2-7.5
2. After autoclaving add 10 ml methanol to 1 litre of the sterile Mineral Salts Solution.

\* Plus 1%MeOH

### Trace elements solution (from medium 939)

|   |         |    |
|---|---------|----|
| EDTA  | 50.00   | g  |
| ZnSO <sub>4</sub> x 7 H <sub>2</sub> O                          | 1.00    | g  |
| CaCl <sub>2</sub> x 2 H <sub>2</sub> O                          | 7.34    | g  |
| MnCl <sub>2</sub> x 4 H <sub>2</sub> O                          | 2.50    | g  |
| CoCl <sub>2</sub> x 6 H <sub>2</sub> O                          | 0.50    | g  |
| (NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> | 0.50    | g  |
| FeSO <sub>4</sub> x 7 H <sub>2</sub> O                          | 5.00    | g  |
| CuSO <sub>4</sub> x 5 H <sub>2</sub> O                          | 0.20    | g  |
| Distilled water   | 1000.00 | ml |

Dissolve the EDTA in about 400 ml of water, then add 9 g NaOH. Dissolve each of the salts individually in about 40-50 ml of water and add them to the EDTA-NaOH solution. Adjust the final pH of the solution to pH 6.0 with 1M NaOH (about 24 ml). Make up to 1 litre with distilled water, store in the dark and do not autoclave the stock solution before it is added to the medium.