

## 27: RHODOSPIRILLACEAE MEDIUM (modified)

This recipe contains strain-specific modifications for *Rhodovulum sulfidophilum* DSM 2351 \*

|                                                            |              |            |
|------------------------------------------------------------|--------------|------------|
| Yeast extract                                              | 0.30         | g          |
| Disodium succinate                                         | 1.00         | g          |
| Ammonium acetate                                           | 0.50         | g          |
| Fe(III) citrate (0.1% in H <sub>2</sub> O)                 | 5.00         | ml         |
| KH <sub>2</sub> PO <sub>4</sub>                            | 0.50         | g          |
| MgSO <sub>4</sub> × 7 H <sub>2</sub> O                     | 0.40         | g          |
| NaCl                                                       | 0.40         | g          |
| NH <sub>4</sub> Cl                                         | 0.40         | g          |
| CaCl <sub>2</sub> × 2 H <sub>2</sub> O                     | 0.05         | g          |
| Vitamin B <sub>12</sub> (10 mg in 100 ml H <sub>2</sub> O) | 0.40         | ml         |
| <b>Trace element solution SL-6</b>                         | 1.00         | ml         |
| L-Cysteine HCl                                             | 0.30         | g          |
| Resazurin (0,1%)                                           | 0.50         | ml         |
| <b>NaCl</b>                                                | <b>30.00</b> | <b>g/l</b> |
| Distilled water                                            | 1000.00      | ml         |

1. Adjust pH to 6.8.
2. Boil the medium for a few minute. Bubble the medium with nitrogen gas and fill 10 ml in 15 ml tubes with a rubber septum under a stream of nitrogen gas. Autoclave at 121°C for 15 min. Sterile syringes are used to inoculate and remove samples.
3. Incubate in the light using a tungsten lamp.

\* With 3% NaCl

### Trace element solution SL-6 (from medium 27)

|                                                       |         |    |
|-------------------------------------------------------|---------|----|
| ZnSO <sub>4</sub> × 7 H <sub>2</sub> O                | 0.10    | g  |
| MnCl <sub>2</sub> × 4 H <sub>2</sub> O                | 0.03    | g  |
| H <sub>3</sub> BO <sub>3</sub>                        | 0.30    | g  |
| CoCl <sub>2</sub> × 6 H <sub>2</sub> O                | 0.20    | g  |
| CuCl <sub>2</sub> × 2 H <sub>2</sub> O                | 0.01    | g  |
| NiCl <sub>2</sub> × 6 H <sub>2</sub> O                | 0.02    | g  |
| Na <sub>2</sub> MoO <sub>4</sub> × 2 H <sub>2</sub> O | 0.03    | g  |
| Distilled water                                       | 1000.00 | ml |