486: THIOBACILLUS THIOPARUS (TK-m) MEDIUM

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>KH₂PO₄</td>
<td>2.00 g</td>
</tr>
<tr>
<td>K₂HPO₄</td>
<td>2.00 g</td>
</tr>
<tr>
<td>NH₄Cl</td>
<td>0.40 g</td>
</tr>
<tr>
<td>Na₂CO₃</td>
<td>0.40 g</td>
</tr>
<tr>
<td>MgCl₂ x 6 H₂O</td>
<td>0.20 g</td>
</tr>
<tr>
<td><strong>Vitamin solution</strong></td>
<td>3.00 ml</td>
</tr>
<tr>
<td>Trace element solution</td>
<td>1.00 ml</td>
</tr>
<tr>
<td>Bromocresol purple (saturated aq. solution)</td>
<td>2.00 ml</td>
</tr>
<tr>
<td>Na₂S₂O₃ x 5 H₂O</td>
<td>5.00 g</td>
</tr>
<tr>
<td>Agar</td>
<td>15.00 g</td>
</tr>
<tr>
<td>Distilled water</td>
<td>1000.00 ml</td>
</tr>
</tbody>
</table>

Sterilize the phosphates separately in 1/10 of medium volume and mix with the other salts when cool. Add filter-sterilized vitamin solution after autoclaving to sterile medium. Adjust pH of complete medium to 7.1, if necessary.

**Vitamin solution** (from medium 484)

<table>
<thead>
<tr>
<th>Vitamin</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiamine-HCl x 2 H₂O</td>
<td>10.00 mg</td>
</tr>
<tr>
<td>Nicotinic acid</td>
<td>20.00 mg</td>
</tr>
<tr>
<td>Pyridoxine hydrochloride</td>
<td>20.00 mg</td>
</tr>
<tr>
<td>p-Aminobenzoic acid</td>
<td>10.00 mg</td>
</tr>
<tr>
<td>Riboflavin</td>
<td>20.00 mg</td>
</tr>
<tr>
<td>Calcium pantothenate</td>
<td>20.00 mg</td>
</tr>
<tr>
<td>Biotin</td>
<td>1.00 mg</td>
</tr>
<tr>
<td>Vitamin B₁₂</td>
<td>1.00 mg</td>
</tr>
<tr>
<td>Distilled water</td>
<td>1000.00 ml</td>
</tr>
</tbody>
</table>

Adjust pH to 7.0.

**Trace element solution** (from medium 333)

<table>
<thead>
<tr>
<th>Element</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Na₂-EDTA</td>
<td>50.00 g</td>
</tr>
<tr>
<td>ZnSO₄ x 7 H₂O</td>
<td>11.00 g</td>
</tr>
<tr>
<td>CaCl₂ x 2 H₂O</td>
<td>7.34 g</td>
</tr>
<tr>
<td>MnCl₂ x 4 H₂O</td>
<td>2.50 g</td>
</tr>
<tr>
<td>CoCl₂ x 6 H₂O</td>
<td>0.50 g</td>
</tr>
<tr>
<td>(NH₄)₆Mo₇O₂₄ x 4 H₂O</td>
<td>0.50 g</td>
</tr>
<tr>
<td>FeSO₄ x 7 H₂O</td>
<td>5.00 g</td>
</tr>
<tr>
<td>CuSO₄ x 5 H₂O</td>
<td>0.20 g</td>
</tr>
<tr>
<td>NaOH</td>
<td>11.00 g</td>
</tr>
<tr>
<td>Distilled water</td>
<td>1000.00 ml</td>
</tr>
</tbody>
</table>
Dissolve EDTA in distilled water and adjust pH to 7.0 using 2 N NaOH; then add other compounds. Adjust pH of final solution to 6.0 with NaOH.