Cyanidium Medium Recipe

Directions
Modification of the SAG medium. Suitable for 2393 Cyanidium caldarium.

For 500 mL Total
1. To approximately 200 mL of dH₂O add each of the components in the order specified while stirring continuously.
2. Adjust the pH to 2.7.
3. Continue recipe for agar or liquid.

For agar:
* a. Bring the total volume to 250 mL with dH₂O.
* b. In a separate container add 7.5 g of agar into 250 mL of dH₂O, do not mix.
* c. Steam both solutions for 15 minutes and put in a 50°C water bath.
* d. Add containers together aseptically and dispense before it solidifies.

For liquid:
* a. Bring the total volume to 500 mL with dH₂O.
* b. Cover and autoclave medium.
* c. Store at refrigerator temperature.

<table>
<thead>
<tr>
<th>#</th>
<th>Component</th>
<th>Amount</th>
<th>Stock Solution Concentration</th>
<th>Final Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(NH₄)₂SO₄ (Fisher A 702)</td>
<td>0.5 g/500 mL</td>
<td></td>
<td>3.78 mM</td>
</tr>
<tr>
<td>2</td>
<td>K₂HPO₄ (Sigma P 3786)</td>
<td>0.01 g/500 mL</td>
<td></td>
<td>0.057 mM</td>
</tr>
<tr>
<td>3</td>
<td>MgSO₄·7H₂O (Sigma 230391)</td>
<td>0.01 g/500 mL</td>
<td></td>
<td>0.041 mM</td>
</tr>
<tr>
<td>4</td>
<td>Soilwater: GR+ Medium</td>
<td>15 mL</td>
<td></td>
<td></td>
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</tbody>
</table>