Media for freshwater, terrestrial, hot spring and salt water algae

**URO–H + Wheat**

Beforehand, sterilize wheat grains by dry heating (150°C, 30 min). Keep in a cool place. For use, add a grain of sterile wheat to 10 mL URO-H medium.

**URO–H**

To 100 mL URO medium add 40 mg HEPES.

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH₄NO₃</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>β-Na₂glycerophosphate·5H₂O</td>
<td>0.4 mg</td>
</tr>
<tr>
<td>MgSO₄·7H₂O</td>
<td>1 mg</td>
</tr>
<tr>
<td>CaCl₂·2H₂O</td>
<td>1 mg</td>
</tr>
<tr>
<td>KCl</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>Thiamine HCl</td>
<td>1 µg</td>
</tr>
<tr>
<td>Vitamin B₁₂</td>
<td>0.01 µg</td>
</tr>
<tr>
<td>Biotin</td>
<td>0.01 µg</td>
</tr>
<tr>
<td>Fe-EDTA</td>
<td>0.05 mg</td>
</tr>
<tr>
<td>PIV metals</td>
<td>0.1 mL</td>
</tr>
<tr>
<td>Distilled water</td>
<td>99.9 mL</td>
</tr>
</tbody>
</table>

pH 7.5

1) pH is adjusted to 7.5 with 0.1 mol/L HCl.

**Reference**

**PIV metals**

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Na₂EDTA·2H₂O</td>
<td>100 mg</td>
</tr>
<tr>
<td>FeCl₃·6H₂O</td>
<td>19.6 mg</td>
</tr>
<tr>
<td>MnCl₂·4H₂O</td>
<td>3.6 mg</td>
</tr>
<tr>
<td>ZnCl₂¹)</td>
<td>1.04 mg</td>
</tr>
<tr>
<td>CoCl₂·6H₂O</td>
<td>0.4 mg</td>
</tr>
<tr>
<td>Na₂MoO₄·2H₂O</td>
<td>0.25 mg</td>
</tr>
<tr>
<td>Distilled water</td>
<td>100 mL</td>
</tr>
</tbody>
</table>

1) In the NIES-Collection, 1.04 mg ZnCl₂ is replaced by 2.2mg ZnSO₄·7H₂O.

**Reference**