**BACTERIA SCREENING MEDIUM 523**  
Product Number B 1662

Storage Temperature: RT

<table>
<thead>
<tr>
<th>Components</th>
<th>g/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agar</td>
<td>8.00</td>
</tr>
<tr>
<td>Casein Hydrolysate</td>
<td>8.00</td>
</tr>
<tr>
<td>Magnesium Sulfate Anhydrous</td>
<td>0.0358</td>
</tr>
<tr>
<td>Potassium Phosphate Monobasic</td>
<td>2.00</td>
</tr>
<tr>
<td>Sucrose</td>
<td>10.00</td>
</tr>
<tr>
<td>Yeast Extract</td>
<td>4.00</td>
</tr>
</tbody>
</table>

32.0358 g of powder are required to prepare 1 L of medium.

**Precautions and Disclaimer**  
Reagent for laboratory use only.  
Not for drug, household, or other uses.

**Preparation Instructions**  
**Preparation Of Bacteria Screening Culture Dishes:**  
Preparing this product in a concentrated form is not recommended. The basic steps for preparing culture medium are the following:

1. Using a container twice the size of the desired final volume, measure out approximately 90% of the final required volume of tissue culture grade water (e.g. Sigma Product No. W3500).  
   Example: 900 ml for a final volume of 1000 ml.
2. While stirring, add the required amount of powder.  
3. Add additional water to bring the medium to the final volume.  
4. To melt the agar, heat the medium to clarity (approximately 100°C) while stirring.  
5. Sterilize the medium in a validated autoclave at 1 kg/cm² (15 psi). The medium should attain a temperature of 121°C for at least 15 min  
6. Pour medium into sterile culture dishes or other vessels as required for your application.  
7. The pH of the medium should be approximately 6.9 after autoclaving.

**Screening Shoot Cultures For The Presence Of Bacteria:**  
This method is used to eliminate contaminated explants during initiation of material into culture and during transfer of shoots to fresh medium. The essential steps are as follows:

1. Prepare culture dishes containing bacterial growth medium as indicated above.  
2. Rub the bases of explants across the bacterial growth medium before transferring explants to plant tissue culture media.  
3. Incubate the streaked dishes in the dark at 24°C.  
4. After two days, visually evaluate the dishes for the presence of bacteria.  
5. Discard the subcultured explants that have produced contaminated streaks.

**Storage/Stability**  
All media preparations should be stored at 2-8°C. Store dry powder in a desiccator at room temperature. Deterioration of powdered medium may be recognized by: 1) color change; 2) granulation, clumping, or particulate matter throughout the powder; 3) insolubility; 4) pH change; or 5) inability to promote growth when properly used.

**Product Profile**  
**Appearance:** Off-white to tan powder  
**Moisture content:** ≤ 5%

**References**


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