Presporulation Growth Medium

Presporulation Growth Medium is used for the growth and sporulation of Saccharomyces cerevisiae.

**Composition**:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Grams/Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptone</td>
<td>3.00</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>8.00</td>
</tr>
<tr>
<td>Potassium acetate</td>
<td>20.00</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters**

**Directions**:  
Suspend 31 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Principle and Interpretation**:

Presporulation Growth Medium is used for the growth and sporulation of Saccharomyces cerevisiae. Pre-Sporulation Medium is used for strains that do not sporulate well when grown on sporulation medium directly. Saccharomyces cerevisiae is a unicellular eukaryote that has become an important tool in microbial genetic techniques. It undergoes meiosis and sporulation which takes place in a single cell. Presporulation medium stimulates the sporulation of diploid yeast cells which occurs only when cells are deprived of any carbon source. Potassium acetate enhances the sporulation of diploid strains. Cells are first exposed to the pre-sporeulation medium for 1-2 days before transferring them to sporulation medium.

**Quality Control**:

**Appearance of Powder**:  
Light yellow coloured, homogeneous, free flowing powder.

**Colour and Clarity**:

Light yellow coloured, clear solution without any precipitate.

**Cultural Response**:

Cultural characteristics observed after an incubation at 35-37°C for 18 - 48 hours.

Please refer disclaimer Overleaf
Organisms (ATCC)  
Saccharomyces cerevisiae ATCC9763  

Growth:  
good-luxuriant  

Storage and Shelf-life:  
Store below 30°C and the prepared medium at 2 - 8°C. Use before expiry date on the label.

References:  