LB-Growth Medium w/o Sodium chloride  

LB-Growth Medium w/o Sodium chloride is used in protein expression systems where Sodium chloride is used to induce protein.

**Composition**:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Grams/Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tryptone</td>
<td>10.00</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>5.00</td>
</tr>
</tbody>
</table>

** Formula adjusted, standardized to suit performance parameters

**Directions**:

Suspend 15 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:**

LB-Growth Medium w/o Sodium chloride is used in protein expression systems where Sodium chloride is used to induce protein. LB Media, originally developed by Bertani, is a very common and nutritionally rich growth media for *E. coli* (1). This media is extensively used for the maintenance and propagation of plasmid DNA and for the growth of the recombinant strains which contain protein expression vector (2). The ingredients provide all the growth factors required for the *E. coli* strain. Tryptone provides all the required peptides and peptones. Yeast extract supplies all the essential vitamins, nucleotides, amino acids, carbohydrate and trace elements.

**Quality Control:**

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

**Colour and Clarity**:
Light yellow coloured, clear solution without any precipitate.

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Please refer disclaimer Overleaf
Cultural Response:
Cultural characteristics observed after an incubation at 35-37°C for 18 - 48 hours.

Organisms (ATCC)                      Growth
Escherichia coli ATCC 23724            good-luxuriant
Escherichia coli ATCC 25922            good-luxuriant
Escherichia coli MTCC1652             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: