PPLO AGAR BASE w/o CRYSTAL VIOLET

CAT N°: 1140
For the isolation and culture of PPLO microorganisms: Mycoplasma in clinical specimens and mixed cultures

FORMULA IN g/l

<table>
<thead>
<tr>
<th>Component</th>
<th>Amount</th>
<th>Component</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Peptone</td>
<td>10.00</td>
<td>Sodium Chloride</td>
<td>5.00</td>
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<tr>
<td>Beef Heart Infusion</td>
<td>6.00</td>
<td>Bacteriological Agar</td>
<td>14.00</td>
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Final pH 7.8 ± 0.2 at 25°C

PREPARATION
Suspend 35 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Sterilize in autoclave at 121°C for 15 minutes. Cool to 45-50°C and, if desired, aseptically add 1% serum fraction or 25% ascetic fluid. Homogenize gently and dispense into Petri dishes. The prepared medium should be stored at 8-15°C. The color is amber slightly opalescent.

The dehydrated medium should be homogeneous, free-flowing and beige in color. If there are any physical changes, discard the medium. The dehydrated medium is very hygroscopic. Keep container tightly closed.

USES
PPLO AGAR BASE w/o CRYSTAL VIOLET is used in the study of the growth requirements of Mycoplasma, along with the identification and cultivation of this organism. PPLO stands for Pleuro Pneumonia-Like Organisms and was described by Morton, Smith and Leberman.

Peptone and Beef heart infusion provide the nutrients for growth: nitrogen, vitamins, minerals and amino acids, whilst the Sodium chloride provides the osmotic balance. Crystal violet is not included in this formula since it is inhibitory on some Mycoplasma. Bacteriological agar is the solidifying agent.

After growth in PPLO Broth (Cat.1262), subculture to PPLO Agar w/o Crystal Violet and incubate at 35 ± 2°C under 5 – 10% CO₂ for up to 7 days. Examine microscopically for growth on a daily basis.

PPLO colonies have a round shape and a a dense center with a less dense periphery, giving a “fried egg” appearance on PPLO Agar.

MICROBIOLOGICAL TEST
The following results were obtained from type cultures after incubation at a temperature of 35 ± 2°C, under 5-10% CO₂, and observed after 7 days.

<table>
<thead>
<tr>
<th>Microorganisms</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mycoplasma bovis ATCC 25523</td>
<td>Good</td>
</tr>
<tr>
<td>Mycoplasma pneumoniae ATCC 15531</td>
<td>Good</td>
</tr>
</tbody>
</table>
BIBLIOGRAPHY


STORAGE

Once opened keep powdered medium closed to avoid hydration.