Anaerobic Blood Agar Plate

**Intended Use:**
Recommended for cultivation of anaerobic microorganisms including very fastidious organisms from clinical specimens.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tryptone</td>
<td>15.000</td>
</tr>
<tr>
<td>Soya peptone</td>
<td>5.000</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>5.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>L-Cysteine</td>
<td>0.500</td>
</tr>
<tr>
<td>Hemin</td>
<td>0.005</td>
</tr>
<tr>
<td>Agar</td>
<td>13.500</td>
</tr>
<tr>
<td>Sheep blood</td>
<td>100.000 ml</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>7.4±0.2</td>
</tr>
</tbody>
</table>

Formula adjusted, standardized to suit performance parameters

**Directions**

Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

**Principle And Interpretation**

Anaerobic Blood Agar base serves as a nutritious, nonselective medium allowing the cultivation of not only fastidious anaerobes but also of aerobic and microaerophilic microorganisms (1). It promotes both typical pigment formation in *Bacteroides melaninogenicus* and displays double haemolytic reaction in *Clostridium perfringens* with added blood to the medium base. The inner zone of haemolysis is due to toxin and the outer zone of incomplete haemolysis to toxin (lecithinase activity).

Tryptone, soya peptone and yeast extract in the medium provides carbon and nitrogenous source, long chain amino acids, vitamins and other essential nutrients. Presence of Hemin and Vitamin K1 supports the growth of typical fastidious bacteria like *Bacteroides* species and gram positive spore bearers like *Clostridium* species. Addition of blood provides nutrients and helps to differentiate haemolytic organisms. Sodium chloride helps in maintaining the osmotic equilibrium.

**Type of specimen**

Clinical samples- stool, abscess

**Specimen Collection and Handling:**

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (2,3). After use, contaminated materials must be sterilized by autoclaving before discarding.

**Warning and Precaution**

In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets

**Limitation**

1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium

2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user’s unique requirement.

**Performance and Evaluation**

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.
Quality Control

Appearance
Sterile Anaerobic Blood Agar in 90 mm disposable plates.

Colour of medium
Red coloured medium

Quantity of medium
25 ml of medium in 90 mm disposable plates.

pH
7.20-7.60

Sterility Test
Passes release criteria

Cultural Response
Cultural characteristics observed after 24-48 hours at 35-37°C with 5-10% CO₂

Organism        Growth
Bacteroides fragilis ATCC 25285        luxuriant
Bacteroides melaninogenicus ATCC 25611        luxuriant
Peptostreptococcus anaerobius ATCC 27337        luxuriant

Storage and Shelf Life
On receipt store between 2-8°C Use before expiry date on the label. Product performance is best if used within stated expiry period.

Disposal
User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (2,3).

Reference
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**Technical Data**

**In vitro diagnostic medical device**

**CE Marking**

**Storage temperature**

2°C – 8°C

Do not use if package is damaged

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