HiCombi™ Dual Performance Medium  

**Intended use**

Recommended for rapid growth of Enterobacteria, *Pseudomonas*, Staphylococci and *Candida*. Combination of solid (7 ml) and liquid (20 ml) media in single bottle.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>7.000 ml</td>
</tr>
<tr>
<td>HM infusion powder #</td>
<td>12.500</td>
</tr>
<tr>
<td>BHI powder</td>
<td>5.000</td>
</tr>
<tr>
<td>Proteose peptone</td>
<td>10.000</td>
</tr>
<tr>
<td>Dextrose (Glucose)</td>
<td>2.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Disodium phosphate</td>
<td>2.500</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
<tr>
<td>Liquid</td>
<td>20.000 ml</td>
</tr>
</tbody>
</table>

Same as solid media without Agar

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

# Equivalent to Calf brain infusion from

**Directions**

Label the ready to use LQ033 bottle. Remove the top seal of the cap. Disinfect the part of the rubber stopper which is now exposed. Transfer the sample immediately into the culture bottle by puncturing the rubber stopper with the needle. Venting: Use sterile venting needle (LA038). Keep the bottle in an upright position preferably in a biological safety cabinet, place an alcohol swab over the rubber stopper and insert the venting needle with filter through it. Insertion and withdrawal of the needle should be done in a straight line. Discard the needle and mix the contents by gently inverting the bottle 2-3 times. Do not vent the bottle for anaerobic cultures. Incubate at 30-35°C for 18-24 hours and further for seven days. Recommended volume of blood to be tested in LQ033: 3-5 ml (For Paediatric use)

**Principle And Interpretation**

BHI Medium is useful for cultivating a wide variety of microorganisms since it is a highly nutritive medium. It is also used to prepare the inocula for antimicrobial susceptibility testing. BHI Broth is a modification of the original formulation of Rosenow, where he added pieces of brain tissues to dextrose broth (9). BHI Broth is also the preferred medium for anaerobic bacteria, yeasts and moulds (2,4,7,11,). This medium is nutritious and well buffered to support the growth of wide variety of organisms (7,10,3).

**Type of specimen**

Clinical samples : Blood and other pathological samples. Food samples

**Specimen Collection and Handling**

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (5,6,8).

For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (1,11,12).

After use, contaminated materials must be sterilized by autoclaving before discarding.

**Warning and Precautions**

In Vitro diagnostic use. 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.

Please refer disclaimer Overleaf.
Limitations
1. As organisms differ in their nutritional requirements, some fastidious organisms may be inhibited or may show poor growth.

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
In a sterile glass bottle combination of broth and one agar coated surface.

Colour of Agar medium Colour of liquid medium
Yellow coloured medium Amber coloured solution

Quantity of medium
7ml of solid medium in glass bottle 20ml of liquid medium in glass bottle

pH of Agar medium pH of liquid medium
7.20- 7.60 7.20- 7.60

Sterility test
Passes release criteria

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

Organism Inoculum (CFU) Growth in liquid medium Growth on agar medium
Candida albicans ATCC 10231 (00054*) 50-100 Luxuriant Luxuriant
Haemophilus influenzae ATCC 19418 50-100 Luxuriant Luxuriant
Pseudomonas aeruginosa ATCC 27853 (00025*) 50-100 Luxuriant Luxuriant
Streptococcus pyogenes ATCC 19615 50-100 Luxuriant Luxuriant
Staphylococcus aureus subsp. aureus ATCC 25923 (00034*) 50-100 Luxuriant Luxuriant
Neisseria meningitidis ATCC 13090 50-100 Luxuriant Luxuriant
Streptococcus pneumoniae ATCC 6303 50-100 Luxuriant Luxuriant
Enterococcus faecalis ATCC 29212 (00087*) 50-100 Luxuriant Luxuriant

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life
On receipt store between 15-22°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 (5,6).

Please refer disclaimer Overleaf.
Reference


Disclaimer:
User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.