Brucella Broth

Intended Use:
Recommended for enrichment and cultivation of *Brucella* from clinical and non-clinical specimens.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tryptone</td>
<td>10.000</td>
</tr>
<tr>
<td>Peptone</td>
<td>10.000</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>2.000</td>
</tr>
<tr>
<td>Dextrose (Glucose)</td>
<td>1.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Sodium bisulphite</td>
<td>0.100</td>
</tr>
<tr>
<td>Final pH ( at 25°C)</td>
<td>7.0±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**

Label the ready to use LQ174 bottle. Remove the top of the cap. Inoculate 50-100 cfu sample and incubate at specified temperature and time.

**Principle And Interpretation**

*Brucella* Broth Base is formulated so as to support luxuriant growth of fastidious bacteria like *Brucella* species (1). *Brucella* is an intracellular parasite that causes epizootic abortions in animals and septicemic febrile illness or localized infections of bone, tissue or organ systems in humans (6, 9). *Brucella*species are highly fastidious and therefore require a nutrient rich medium to be able to grow. Also, *Brucella* species are highly infective and so extreme care should be taken while handling.

Peptone and tryptone provide nitrogenous and carbonaceous compounds, long chain amino acids, vitamins and other nutrients to the organisms. Yeast extract also supply some nitrogenous nutrients but mainly it serves as a source of Vitamin B complex. Dextrose (Glucose) serves as an energy source. It can be enriched with 5% v/v sterile defibrinated horse blood. It is suggested that half the tubes to be incubated in the normal atmosphere, and half in a 10% CO2 enriched atmosphere. *Brucella* species are highly infectious and so extreme care should be taken while handling.

**Type of specimen**

Clinical samples: blood, urine

**Specimen Collection and Handling**

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (2,4).

**Warning and Precautions**

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.

**Limitations**

1. All presumptive anaerobic organisms must be identified by confirmatory test

**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 Brucella Broth in glass bottle.

Colour
Light amber coloured clear solution.

Quantity of Medium
5 ml of medium in glass bottle.

pH
6.80-7.20

Cultural Response
Cultural characteristics observed under 10% Carbon dioxide (CO2) after an incubation at 35-37°C for 24-72 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Brucella melitensis</em> ATCC</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>4309</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Brucella suis</em> ATCC 4314</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Escherichia coli</em> ATCC 25922 (00013*)</td>
<td>&gt;=10^4</td>
<td>inhibited</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em> subsp. <em>aureus</em> ATCC 25923 (00034*)</td>
<td>&gt;=10^4</td>
<td>inhibited</td>
</tr>
</tbody>
</table>

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life
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 (2,4).

Reference
In vitro diagnostic medical device

CE Marking

Storage temperature

2°C ± 8°C

Do not use if package is damaged

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