


Appendix A

1. Bacto-agar Glucose Triphenyltetrazolium chloride (BGT) Media

For one litre

- Peptone: 10g
- Casmino acid / Casein hydrolysate: 1g
- Yeast extract: 1g
- Agar bacteriological: 15g

1.25% Triphenyltetrazolium chloride (TTC): 4ml
20% Glucose: 25ml

Mix the peptone, casmino acid and yeast extract in 500 ml of water, then add agar. Add distilled water to a final volume of one liter. Autoclave the mixture for 20 minutes at 121°C. Add 4ml of TTC with a concentration of 1.25% and 25ml of 20% Glucose and the selected antibiotic if required, just before pouring.

1.25% Triphenyltetrazolium chloride (TTC)
1.25 g TTC dissolved in 100 ml of EtOH, store at 4°C, and cover bottle with foil.

20% Glucose
Dissolve 20 g of glucose in 100 ml of sterile distilled water and autoclave. After opening store at 4°C.
2. **B MEDIA (LIQUID BROTH)**

Peptone 10 g  
Casmino acid / Casein hydrolysate 1 g  
Yeast extract 1 g  

Peptone, casmino acid and yeast extract is added to 500 ml of distilled water and mix thoroughly. Add distilled water to a final volume of one liter. Autoclave the mixture for 20 minutes at 121°C. Add 25 ml of 20% Glucose and antibiotics if required.

3. **Antibiotics added**

<table>
<thead>
<tr>
<th>Antibiotic</th>
<th>Stock solution</th>
<th>Final concentration</th>
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<tbody>
<tr>
<td>Rifampicin</td>
<td>(50 mg in 1 ml of ethanol)</td>
<td>50 mg</td>
</tr>
<tr>
<td>Kanamycin</td>
<td>(50 mg in 1 ml of distilled water)</td>
<td>50 mg</td>
</tr>
<tr>
<td>Spectinomycin</td>
<td>(40 mg in 1 ml of distilled water)</td>
<td>40 mg</td>
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Kanamycin and Spectinomycin were dissolved in the water and filter-sterilized through 0.2 μm sterile filters. Antibiotic stocks were stored at -20°C.
### APPENDIX B

Primer used in the study

<table>
<thead>
<tr>
<th>Primer</th>
<th>Length (bp)</th>
<th>Sequence 5'-3'</th>
<th>GC %</th>
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<td>Y2</td>
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