Correctly acidifying milk kills *M. bovis*. The best way to achieve success is to correctly measure milk and weigh acid before mixing.

**AIM FOR 4.5**

<table>
<thead>
<tr>
<th>PH SCALE</th>
<th>10</th>
<th>5</th>
<th>4.5</th>
<th>4</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above pH5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>M. bovis</em> can live</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Below pH5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>M. bovis</em> kills</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Below pH4 calves will not drink it</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Guidelines for adding citric acid to milk.

1. **Get fresh milk**
   - Fresh Milk
   - 24°C or below
   - If milk is too warm it goes lumpy

2. **Measure & add acid to milk**
   - Sprinkle & stir gently
   - If stirred too quickly it goes lumpy
   - **ACID** | **MILK**
   - 5.5g | litre
   - 55g | 10 litres
   - 110g | 20 litres
   - 550g | 100 litres

3. **Wait 30 mins and test pH**
   - 30 MINS
   - If milk is below pH 4 it will go lumpy

4. **Cover & leave for 8 hours**
   - 8 HRS
   - Leave for 8 hours

5. **Stir gently & test again before feeding**
   - Store and feed as normal after this process