

## Streaking/Plating Microbial Cultures on Agar

<b>Goal</b>	To isolate and grow isolated cultures of <i>E. coli</i> on Agar plates
<b>Materials</b>	<ul style="list-style-type: none"><li>• Bunsen burner</li><li>• Disposable loops used to streak plates</li><li>• Lysogeny broth(LB) agar plates (with antibiotics if required)</li><li>• Culture of <i>E. coli</i> (in plate or in shake flask/test tube)</li></ul>
<b>Procedure</b>	<ol style="list-style-type: none"><li>1. Ignite the Bunsen burner to maintain a sterile environment</li><li>2. If culture is in a petri dish: Use the tip of a disposable loop and pick up an isolated culture</li><li>3. If culture is in a shake flask/test tube: Dip the circular end of the loop into the liquid medium culture</li><li>4. Close the petri dish or shake flask/test tube</li><li>5. Transfer the collected sample to the LB agar plates by gently touching the tip/loop end with bacteria on the agar and brush over the plate. Make sure to streak at an angle</li><li>6. Two streaking methods are possible: Brushing the loop all over the plate once without crossing previous streaks, or brushing the loop over three different thirds of the plate</li><li>7. Allow streaks to dry before labelling each plate and incubating them at the appropriate temperature</li></ol>