

Double Helix Brewing Consulting, LLC

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Extract Plate Instructions

Propose: Used for isolation of yeast and bacteria

Plate Culturing

1. Allow plate to warm up room temperature (approximately 15-20 minutes).
2. Clean your working area with sanitizer or 70% ethanol.
3. Light an alcohol lamp or Bunsen burner and work in the clean area created by the updraft.
4. Place the plate near the flame, media side up. Always work with your plates in this position because it will ensure nothing falls onto the media.
5. Sterilize your metal inoculation loop by running it the braded part through the flame until it glows red. Or un-wrap a disposable plastic inoculation loop.
 - a. **Yeast from bottle**
 1. In the clean area, remove collection jar lid and swirl liquid with loop, replace lid. If there is plenty of yeast in your jar, the loop will pick up plenty to culture.
 - A. If using a disposable sterile cell spreader, just remove the dregs lid, swirl the spreader in the liquid, replace lid.
 2. Pick up the top half of the plate (side containing the media) leaving the lid on the table.
 3. Streak plate as depicted in the figure below, starting with #1.
 - A. If using the cell spreader, spread the liquid around the plate.
 4. Place back onto lid.
 - b. **Yeast from slant**
 1. Open slant and flame the opening.
 2. Touch media to cool the loop then touch a colony from the slant (picking up just a small amount of yeast), flame the opening again and replace cap.
 3. Pick up the top half of the plate (side containing the media) leaving the lid on the table.
 4. Streak plate as depicted in the figure below, starting with #1.
 5. Place back onto lid.
6. Incubate at room temperature for 24-48 hours or until colonies began to form (if you can increase the incubation temperature to 75 °F colonies will grow quicker).
7. Once colonies have grown follow the instructions for streaking a slant or propagating. Or seal plate with vinyl tape (electrical tape) and store in the refrigerator (max storage time 2 months).

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