

Procedure for Making LB-Agar Plates

General Recipe

LB Mix Concentration – 25 mg/mL

Agar Concentration – 15 mg/mL

Antibiotics – 1 μ L/mL

To prepare 25 plates:

1. Measure out 11.25 g LB mix, add 6.75 g agar, and add 450 mL water. No need to mix or dissolve the solids as this will happen during autoclaving.
2. Autoclave for a minimum of 20 minutes at 121°C on the liquid cycle.
3. Allow the mixture to cool to touch. While waiting, carefully take the plates out of their plastic packaging ensuring they remain closed at all times.
4. Add antibiotic, if desired, and stir. (1 μ L of 1000x antibiotic per mL broth – antibiotic solutions are in the -20°C freezer) \therefore add 450 μ L 1000x antibiotic to 450 mL broth
5. Carefully pour the liquid into each plate until the bottom of the plate is covered. Make sure to open the plate cover as little as possible to prevent contamination.
6. Let sit until the agar has solidified.
7. For LB-only plates in particular, it may be a good idea to individually parafilm each plate to prolong their shelf life.
8. Carefully place the plates back into the plastic bag they came in. On the bag, mark the nutrient type (LB), which antibiotic(s) were added, your initials, and the date.
9. Store the plates in the 4°C fridge.

