

Lysogeny Agar Plate Preparation

Goal	To prepare nutrient-rich plates for future <i>E. coli</i> colonization
Materials	<ul style="list-style-type: none">• Electronic scale and plastic tray for weight• Medium bottle• Petri dishes• Tryptone• Yeast extract• NaCl• Agar• Antibody (if required)
Procedure	<ol style="list-style-type: none">1. Place plastic tray on scale and tare2. Weigh 15g of agar, 10g of tryptone, 5g of yeast extract and 5g of NaCl. into the medium bottle3. Acquire 1 L of deionized water using a graduated cylinder and pour into bottle4. Shake the bottle to dissolve contents5. Autoclave the medium bottle6. Acquire petri dishes7. Add the appropriate antibiotic proportion into the media8. For chloramphenicol: add 10 μL of 1000x chloramphenicol for every 100 mL of LB9. Pour the LB agar medium into approximately $\frac{3}{4}$ of the plate. Swirl each plate after pouring so LB agar medium is evenly distributed10. Once one plate is filled, continue pouring into the subsequent plates. Because the LB agar medium can solidify quickly, working efficiently is essential11. Once all plates are dry, place lids on the plates and stack the plates with the lid facing upwards12. Stack plates with agar facing downwards and tightly wrap with parafilm13. Store plates at 4°C or at room temperature for future use