

Lab 4 – Plasmid Purification Prep:

Background:

Next week we will be removing our p-GLO plasmid from the transformed *E. coli* and we need to make a few reagents in preparation for the lab. I have some concentrated stock solutions for you to use. You will need to figure out how much of the stock to use to make our desired volume of 1 mL for each reagent. Since we will be working on a small scale next week, you can mix your reagents in an eppendorf tube that is clearly labeled for next week. See *At The Bench* page 128 for how to properly label a solution.

Purpose:

To practice making working solutions by making dilutions of stock solutions

Here's what we have for stock:

100mM Glucose 10% SDS 100mM EDTA 100mM Tris 2M NaOH
5M Potassium Acetate

Here's what we need:

Determine the amount in μL and check with instructor before making.

1. GTE Buffer - 1mL	Protocol	Amount of stock in μL
	25mM Tris	
	10mM EDTA	
	50mM glucose	
	Water	
2. Potassium acetate/acetic acid buffer - 1mL	Protocol for 100mL	Amount of Stock in μL
	60mL of 5M Potassium Acetate	
	11.5 mL of glacial acetic acid	
	28.5mL water	
3. TE Buffer - 1mL	Protocol	Amount of Stock in μL
	10mM Tris	
	1mM EDTA	
	Water	

4. SDS/NaOH - 1mL	Protocol	Amount of Stock in μL
	1% SDS	
	0.2 M NaOH	
	Water	

Data/calculations:

Show all work for calculating the dilutions.

Conclusion:

Did you make all four solutions and how do you know they are made correctly?