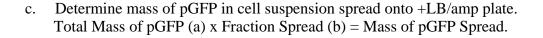


## Bacterial Transformation Student Post-Lab Worksheet

Na	me: _				Date:	
1.	. Observe the plates, and record number of colonies on each box in the matrix below. If cell growth is too dense to count individual colonies, record "lawn."					
			Transformed cells +plasmid	Nontransformed cells –plasmid		
	LB	s/amp	•			
	LB	}				
W	ere res	sults as	s expected? Explain	possible reasons for var	riations from expected results.	
2. Compare and contrast the number of colonies on each of the following pairs of of results tell you about the experiment?					of the following pairs of plates.	What does each pair
	a. +LB and -LB					
bLB/amp and -LB						
	c. +LB/amp and -LB/amp					
	d	⊦LB/an	np and +LB			
3.	Transformation efficiency is expressed as the number of antibiotic resistant colonies. The object is to determine the mass of pGFP that was spread on the experimental plat for the transformants observed.  a. Determine total mass (in µg) of pGFP used in Step 9.  Concentration x Volume = Mass.					
				suspension spread onto	+LB/amp plate (Step 18).	



## Bacterial Transformation Student Post-Lab Worksheet



- d. Determine number of colonies per μg of pGFP. Express answer in scientific notation. Colonies Observed / Mass of pGFP Spread (c) = Transformation Efficiency.
- 4. What factors might influence transformation efficiency?