

Lab 10: Bacterial Transformation, part 2, DNA plasmid preps, Determining DNA Concentration and Purity

Today you analyze the results of your bacterial transformation from last week and determine the efficiency of your transformation. You will also perform a small-scale DNA plasmid preparation, which involves isolating a DNA plasmid from bacterial cells (effectively the opposite of transformation). Finally, you will use the spectrophotometer to determine the concentration and purity of a DNA sample.

Activity 10a

Transformation, Part 2: Calculating Transformation Efficiency

Purpose

The purpose of this activity is to observe the results from the bacterial transformation you performed last week. You will observe the four agar plates to see if the results match the predictions you made last week. You will also calculate the efficiency of your transformation to quantitatively determine the relative success of the transformation procedure.

Procedure

1. Use a data table similar to Table 10.1 below to record data from your bacterial transformation experiment. Observe your group's plates using the UV lamp and record what you see on each of the four plates. In your observations, note whether you see bacterial colonies, and whether the colonies fluoresce (glow) green under the UV light.

Table 10.1 Bacterial Transformation Observations

Plates	Observations
+pGLO, LB/amp	
+pGLO, LB/amp/ara	
-pGLO, LB/amp	
-pGLO, LB	

Answers For Classzone Bacterial Transformation Lab

Marlene Kent

Answers For Classzone Bacterial Transformation Lab:

Advanced Biology Lab Investigations Marlene Kent, 2013-12-24 This manual contains 24 labs and is aligned with the first year college advanced placement level high school biology curriculum standards and science practices. There are eight main lab investigations, two for each AP Bio Big Idea, each including a student guided inquiry:

- 1. DIFFUSION AND OSMOSIS: Surface area and cell size modeling, osmosis in live water plant cells.
- 2. CHANGES WITHIN POPULATIONS: PTC taste test, global analysis simulations of changes within populations, Equilibrium Natural Selection, Genetic Drift, mathematical modeling of allele frequencies within a population.
- 3. EVOLUTIONARY RELATIONSHIPS: Cladogram construction, biochemical analyses of gene and protein sequence, % similarities and differences, BLAST database tutorial, and cladogram construction for comparing evolutionary relationships.
- 4. ENTREZ GENE: Database tutorial comparing normal gene sequences to chromosomal aberrations in human diseases.
- 5. MITOSIS AND MEIOSIS: Loss of cell cycle control analysis in cancer cells using human karyotypes, environmental abiotic effects on mitotic rates, and data analysis for significance.
- 6. STUDENT GUIDED INQUIRY ON ENVIRONMENTAL EFFECTS ON MITOSIS AND CROSSING OVER IN MEIOSIS: Demonstrating increased genetic variability in subsequent generations.
- 7. ENZYME ACTIVITY: Catalase enzyme and breakdown of toxins in the liver, enzyme specificity using lactase enzyme, rates of reaction assay, and baseline effects of pH on enzymatic activity.
- 8. STUDENT GUIDED INQUIRY FOR OTHER POTENTIAL ENVIRONMENTAL EFFECTS ON ENZYME ACTIVITY: Predictions on effect of different abiotic conditions on photosynthesis and the effect of exercise on cellular respiration.
- 9. PHOTOSYNTHESIS AND CELLULAR RESPIRATION: Predictions on effect of different abiotic conditions on photosynthesis and the effect of exercise on cellular respiration, waste product production rates, measuring photosynthesis and cellular respiration rates using the Floating Leaf Disk technique.
- 10. BIOTECHNOLOGY: BACTERIAL TRANSFORMATION: Biotechnology simulation of transforming the human insulin making gene into a bacterial plasmid, bacterial transformation of the jellyfish gene for green fluorescence into *E. coli*, transformation efficiency calculations, and student guided inquiry of the newly transformed bacterial colonies.
- 11. ENERGY DYNAMICS: Environmental impact of eating at lower trophic levels, energy transfer and productivity lab using yeast fermentation of corn sugar into ethanol and carbon dioxide, and student guided inquiry on variables that could potentially increase the rate of fermentation for biofuel production.

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