
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

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