

# pGLO Transformation Efficiency

## Answer Sheet

1. Total # of Cells \_\_\_\_\_

Total amount of DNA( $\mu\text{g}$ ) \_\_\_\_\_

Fraction of DNA \_\_\_\_\_

pGLO DNA spread( $\mu\text{g}$ ) \_\_\_\_\_

Number of colonies on LB/amp/ara plate =	
Micrograms of pGLO DNA spread on the plates	

Transformation Efficiency = \_\_\_\_\_

### Analysis

\*How would scientists report 10,000 transformants/ $\mu\text{g}$  in scientific notation?

\_\_\_\_\_

\*How would scientists report 40,000 transformants/ $\mu\text{g}$  in scientific notation?

\_\_\_\_\_

\*How would scientists report 960,000 transformants/ $\mu\text{g}$  in scientific notation?

\_\_\_\_\_

\*Report your calculated transformation efficiency in scientific notation.

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\*Use a sentence or two to explain what your calculation of transformation efficiency means.

\*How does your transformation efficiency compare with the standard?

<b>Team</b>	<b>Efficiency</b>

\*How does your transformation efficiency compare with the other teams in class?

Number of colonies on LB/amp/ara plate =
Micrograms of DNA spread on plates =
Transformation efficiency =