TRANSFORMATION EFFICIENCY

1. Total amount of DNA (ug) = (concentration of pGLO DNA plasmid) x (volume of pGLO DNA plasmid)

_____   = _____ x _____

2. *DNA Fraction* = (volume of cells spread on plate) / (volume of transformation buffer + volume of LB broth)

_____   = _____ / (_____ + _____)

3. *pGLO spread* = (**Total amount of DNA**) x (*DNA fraction*)

_____ = _____   X _____

4. Transformation efficiency = (number of colonies) / (*pGLO spread*)

_____   = _____ / _____

LAST STEP

Percentage = (Transformation efficiency / 7000) x 100% ***

***Divide by 7000 because that is the optimum transformation efficiency

_____ = (_____ / 7000) x 100%