



# **COC Biotechnology Program**

## **Sterile Techniques, Tissue Culture, and Cell Counting Post Lab**

1. Why are insect cells used in this lab? List three reasons.
2. Why is the propagation of a cell line an important technique for a science?
3. Trypan Blue is a dye that indicates non-viable cells. Why do viable cells not take up the Trypan Blue dye?
4. Can the cells in a culture continue to grow at the same rate for an infinite period of time? Explain.
5. Calculate the number of cells per ml of a sample in which you counted 85 cells per square (large corner square) using the hemocytometer. Show your work using dimensional analysis and express your answer in cells/ml.
6. Is there any correlation between the viable and non-viable cells present in the samples over time? Explain