

PBC Day 6 Interpretation Questions

1. Interpret your Western blot data. Your interpretation should include answers to the following questions:

- a. Which lanes have bands and which do not?
- b. Is this what you expected?
- c. If you don't see any bands, where would you have expected to see them?
- d. Suggest reason(s) that your "expected" bands might be missing.

2. Enzyme Kinetics Analysis for **EACH** strain (CSH and HIS461). There is a guide in the manual appendix (page 62-66) that will help you through these calculations.

Remember: everything happens **in the reaction tube**, and DON'T FORGET UNITS!!

Use Excel or some comparable program for data analysis and include all relevant charts and graphs:

- i. Plot of primary data for EACH strain
- ii. Michaelis-Menton plot for EACH strain– Estimate K_M and V_{max}
- iii. Lineweaver-Burke plot for EACH strain – Calculate K_M and V_{max}
- iv. Calculation of k_{cat} for EACH strain.