BCH 162 Laboratory Report Rubric
Experiment #7A&B: Kinetic Characterization of LDH

Student Name (Last, First): _____

Date Received: _____

Points received/points possible: ____ / 45 points.

I. Title Page: _____ / 2.5 **pts**

II. Objective:

General overview of experiments and their purpose

_____/ 1.5 pts Kinetic Characterization

_____/ 1.5 pts Inhibition

III. **Procedures**

A. Expt. 7A Kinetic Characterization

_____ / 1.5 pts Determination of K_m, V_{max}, K_{cat} w/lactate

_____ / 1.5 pts Determination of precision of K_m, V_{max}, K_{cat}

B. Expt. 7B Kinetic Characterization/Inhibition

_____ / 1.5 pts assuming oxalate is a competitive inhibitor, determine the K_m^{app} and V_{max}^{app} of LDH, and the K_I of oxalate.

_____ / 1.5 pts Determination of precision (standard error) of the K_m^{app}, V_{max}^{app}, K_I determinations.

IV. Results/data:

A. Kinetic Characterization

_____ / 2 pts Raw data plots

_____ / 2 pts Tables of S_0 and V_0 values w/ and w/o inhibitor

_____ / 2 pts Direct linear plots

_____ / **6** pts Estimates of K_m, V_{max}, K_{cat}, K_m^{app}, V_{max}^{app}, K_I with precisions (SE).

_____ / 2 pts Line-weaver-Burk plots

V. Discussion _____/19.5 pts