Errata to the lab manual

Chemistry 184, Biological Chemistry Laboratory, Spring 2008

DETECTION OF FLUORESCENCE FROM SINGLE MOLECULES

Page 38 – **Fine alignment of the excitation laser.**

Current protocol: Perform steps 1-13 using the 60x objective.

Corrected protocol: First perform steps 1-13 using the 10x objective. Then, repeats steps 1-13 using the 60x objective.

CHARACTERIZATION OF MUSHROOM TYROSINASE ACTIVITY

Page 83 – **Step 2: Packing the column with flow**. The protocol is missing step #14.

14. Detach the column without introducing air onto the column. Perform step #1 from the *Protocol for attaching a column or introducing a new buffer*, page 85.

Page 87 – **Step 4: Eluting your sample from the column**, step #6.

Current protocol: "Three CV is a good volume for this gradient…"

Corrected protocol: "Five CV is a good volume for this gradient…"

Page 92 – **Step 1: Concentrating the samples**, step #6.

Current protocol: "Add enough *DEAE loading buffer* to bring all of your samples up to 50 μl."

Corrected protocol: "If necessary, add enough *DEAE loading buffer* to bring all of your samples up to 25 μl."

ALTERATION OF THE SPECTRAL PROPERTIES OF ZSYELLOW

Page 121 – **Purification of His-tagged protein**, steps #5 and #6.

Steps #5 and #6 should be reversed.

Page 141 – **Step 1: Making the dilution series**.

Current protocol: the last column reads

BSA (μL) (stock or dilution)
100 of BSA stock
100 of dilution 2
100 of dilution 3
100 of dilution 4
100 of dilution 5
100 of dilution 6
-

Corrected protocol: the last column reads

BSA (μL) (stock or dilution)
100 of BSA stock
100 of dilution 1
100 of dilution 2
100 of dilution 3
100 of dilution 4
100 of dilution 5
-

Page 147 – **Buffers and Salts for Tyrosinase Experiment**, *DEAE elution buffer*.

The buffer should contain 1 M sodium chloride (***not*** 25 mM sodium chloride). When making 500 mL of buffer, 29.2 g of sodium chloride is included.

Page 148 – **Buffers for Protein Gels**, *10x SDS-PAGE running buffer*

The buffer should contain 740 mM glycine (***not*** 2 M glycine). 72.1 g is the correct amount of glycine to add.