

BL483 Biochemistry Techniques -- Winter, 1999-2000

Prof. Wilbur H. Campbell

Office: 409 ESE, phone 487-2214; Email: wcampbel@mtu.edu

Lecture: Mon. Noon

Lab: Mon. or Tues. 2-5 PM "Biochem Lab" (ESE 711)

Text: Experimental Biochemistry, Clark & Switzer

TA: Yi Wang, 411 or 407 ESE, 487-3355, Email: yiw@mtu.edu

Week in Term and Date	Text Expt	Topic
1. Nov29/31	1	Protein Assay and Standard Curve (View Lab Safety Video)
2. Dec 6/7	9	Enzyme Assay & pH Optimum for Acid Phosphatase
3. Dec 13 / 14	9	Enzyme Kinetics for Acid Phosphatase
4. Dec 20/21	10	Glutamate Oxaloacetate Transaminase (GOT) A. Initial Purification and Assays
5. Jan 10 / 11	10	B. GOT - Ammonium Sulfate Fractionation & Dialysis
6. Jan 17 / 18	10	C. GOT - Ion Exchange Chromatography
7. Jan 24 / 25	4	GOT Native Gel Electrophoresis for Enzyme Purity
8. Jan 31/Feb 1	4	GOT Denaturing (SDS) Gels for Subunit Molecular Weight and Gel Filtration Chromatography for Native MW of GOT
9. Feb 7 / 8	Handout	Affinity Chromatography of a Recombinant Enzyme Fragment (FAD domain of corn NADH:nitrate reductase expressed in <i>E. coli</i>)
10. Feb 14 / 15	Handout	Western Blotting with antibodies to the Recombinant Enzyme