

CHEM 116/222

KH 4-4: Determination of Glucose in Blood Serum

Name: _____ Date: _____

TA's Name: _____

CALIBRATION CURVE

mass of glucose (g)				
standards conc (mg/100 mL)				
absorbance				

Prepare and include a graph of absorbance vs. mg of glucose per 100 mL in the standard solutions. Do a linear regression on the data and report the regression parameters and their errors:

m	u_m	b	u_b	s_y	r^2

UNKNOWN #: _____***UNKNOWN ANALYSIS***

	trial 1	trial 2	trial 3
absorbance			
concentration (mg/100 mL)			
average (mg/100 mL)			
std uncertainty (use Eq. 4-27)			
relative std uncertainty (%)			

FOR GRADER'S USE ONLY (do not write below)

real mg glucose / 100 mL	mg glucose / 100 mL
experimental error	
lab report grade	/100