Chemistry 1210 Spectrophotometric Determination of Acetylsalicylic Acid

Name:	Part	tner:		
OBJECTIVE:	To quantitatively analyze a commercial aspirin tablet for ASA content by spectrophotometric means.			
PROCEDURE: As in t	he chemistry 1210 lab manual, pag	ges		
OBSERVATIONS:				
DATA:				
Mass of weigh boat and ASA (g)	Mass of emptied weigh boat (g)	Mass of reagent grade ASA transferred to flask(g)	Mass of reagent grade ASA transferred to flask (mg)	
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$\lambda_{ ext{max}}$	nm
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If less than three sig figs are obtained in absorbance readings, read % T and convert to absorbance by calculation

Volume	1.00 mL	2.00 mL	3.00 mL	4.00 mL	5.00 mL	ASA Tablet
Measured Absorbance or % Transmittance						
Average Absorbance						

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Mass of ASA tablet (mg)		Company's claimed ASA amount in tablet (mg)	

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GRAPH: Attach Beer's Law Plot

CALCULATIONS:

Standard Solution	1.00 mL	2.00 mL	3.00 mL	4.00 mL	5.00 mL
Concentration					
(mg ASA/mL)					

Concentration					
(mg ASA/mL)					
Sample calculation for	concentration of star	ndards:			
Calculation of ASA co	ncentration of final u	nknown ASA solution	on:		
Mass ASA in tablet:					
% by Mass ASA in the tablet:					

RESULTS:

Slope	Y-Intercept	Concentration of ASA in Final solution	Experimentally Determined Mass ASA in Tablet

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DISCUSSION:	
Did the tablet contain the claimed amount of a explain if this error would give a higher or lo	ASA? Give a source of error beyond your reasonable control and wer mass of ASA than the true value
esplain if his error would give a higher or to	wer mass of 11011 mar me mae vane.
CONCLUSION:	
QUESTIONS:	

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