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Lab 1 Notebook

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Abstract

Prelab

- 1. Give the volume range of p100 and p1000.
- 2. For each pipette look up the relative and absolute error for 3 different volume settings.
- 3. Look up water density: Weight per volume $(g/\mu L)$.
- 4. Give an example in which gel electrophoresis is used.
- 5. Name the two pipetting techniques.
- 6. How many ways are there to correctly load a microcentrifuge?

Lab Results:

Water Trial Chart

Pipet model used: _

This graph is associated with only 1 micropipette used; so make three of these.

Trial	volume extracted (uL)	Mass weighed (g)
1		
2		
3		
4		
5		

Calculate the Standard Deviation and Percent Error

Standard Deviation= $(((x-y)^2))/(n-1))^{1/2}$ x = summation of individual values

y = mean of all values

n = # of trials

% Error =
$$((x-z)/z)(100)$$

x = mean value

z = set volume (intended volume on scale)

Mean= _____ % Error= ____ S.D.= ____

Use the density(g/m^3) conversion from your prelab to predict the weight of each volume pipetted.

Attach a picture of the liquids you have spun in your Microcentrifuge and give the name of liquids used.

Post Lab

Write a short experiment where you use at least 2 of the components learned in this lab.