Copy of Lab 1 Notebook

Kamron Mojabe[1]
[1]alyss

Sep 21, 2020

2 Works for me This document is published without a DOI.

UCSC BME 22L

CREATED

Sep 21, 2020

LAST MODIFIED

Sep 21, 2020

DOCUMENT INTEGER ID

42342

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/µL).
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

SD= (((x-y)^2)) / (n -1)) ^(½)

where x= summation of individual values

Y = mean of all values

N = # of trials

% Error = ((mean value - set volume)/ set volume) x 100

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.