BCH312 [Practical]

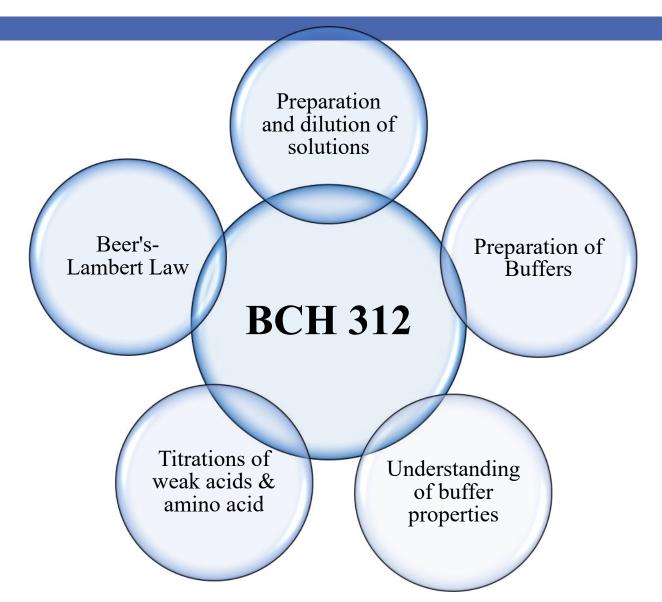
Introduction and lab safety

1

Mark Distribution:

Evaluation	Marks
Quizzes	5 Marks
Lab Report	4 Marks
Lab performance	1 Mark
HomeWorks	2 Marks
Final Exam (May 7th, 2024)	13 Marks
Total	25 Marks

Course Outline:



Course Reference:

Segel, I. H. (1968, January 1). Biochemical Calculations. John Wiley & Sons.

https://www.dropbox.com/s/j3yi4k0aj9xkzko/%40biochemical% 20calculation.pdf?dl=0



Writing a Report:

⇒ 1st Writing style:

Font: Times New Roman. Size: 12 for text and 14 for subtitle. The space between line is 1.5. The text must be justified.

- ⇒ 2nd Report content:
- 1. Cover page

Logo of uni. & dep. – report title – course name and code – students names – date of submission.

2. Table of content

King Saud University College of Science Department of Biochemistry

Title of the experiment

BCH 000

Prepared by: Name 4411111 Name 4411111

Writing a Report:

3. Introduction

A background that helps to understand your topic should be written. The information in the introduction must be cited.

4. Objective/s

Write it using your own words, make it specific.

5. Materials and methods

As in the lab-sheet

Introduction

migration rate of RNA through agarose gels depends on the following parameters: size of the

RNA molecules, the concentration of agarose gel, and voltage applied [7].

References



Surzycki, S., Basic Techniques in Molecular Biology. 2000, New York: Springer.

Writing a Report:

6. Results

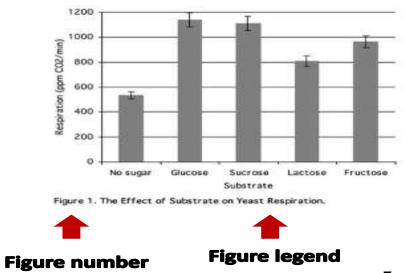
You should report all the results that you get from your experiment. Any tables, figures or calculations. You MUST write the Legend of tables and figures as shown below

7. Discussion

You must write a description and reasons for why you got your results.

8. References

Table num	nber	Table legend	
Table 2.			on hepatic lipid
	-	n biomarkers.	
Bion	peroxidatio harkers	n biomarkers. Control group	Lipofundin group
Bion MDA (µmol/	narkers		Lipofundin group 7.63 ± 0.31*
	harkers L/mgPr)	Control group	



General Laboratory Safety

- > You.
- > Other lab workers and visitors.
- > Your work.

General consideration:

- > Never eat, drink or chew gum in the lab.
- > Do<u>not</u> taste, smell or touch any chemical.
- > Tell your instructor about any accident.
- > Tie your hair before experimenting.
- > Closed-toed shoes should be worn at all times.
- > Wash your **hands** with soap after an experiment.
- > You must know all exits in your lab, eye washer, and fire extinguisher, first aid kit.
- > Do <u>not</u> touch any electrical sources.

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General consideration:

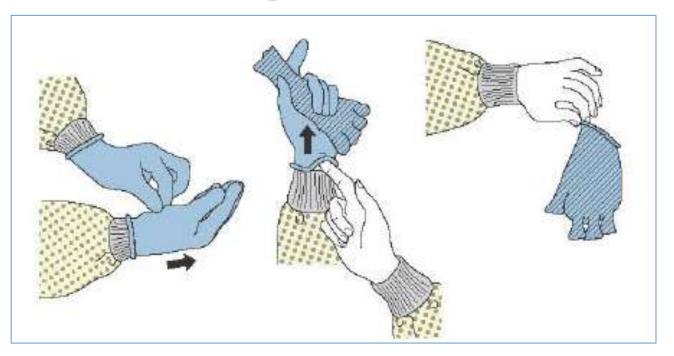








How to remove gloves



General consideration:

Before starting the experiment:

- > Before starting working, be sure to label the glassware.
- > Glassware should be cleaned before use.



After finishing the experiment:

- > After finishing the experiment turn off all the equipment, and clean your work bench.
- > Glassware must be cleaned and kept back in the proper place.



Dealing with chemicals

- Consider <u>all chemicals to be hazardous.</u>
- > Know what chemicals you are using and notice the hazard symbols.
- > Carefully **read the label** twice before taking anything from a bottle.
- > Never point a test tube that you are heating at yourself or your neighbour.
- > You must work at the **hood** when dealing with a chemical with fumes.
- If chemicals come into contact with your skin or eyes, flush immediately with water and consult with your instructor.
- Always pour acids into water. If you pour water into acid, the heat of the reaction will cause the water to explode into steam.
- > Do not forget to **label your tubes** before starting the lab.
- Close all chemical bottles after finishing
- > Dispose of chemicals properly.



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Hazard symbols:

