

BIOCHEMISTRY

NAME:

DATE:

SECTION:

SCORE:

LABORATORY EXPERIMENT #5

OIL AND FATS

I. SOLUBILITY WITH WATER

REAGENT: DISTILLED WATER

SOLUTION	REACTION	RESULT
1.DESI GHEE (BUTTER)		
2. VEGETABLE GHEE (OIL)		
3.REFINED OIL		

OBSERVATIONS:

CONCLUSION:

GENERALIZATION:

II. SOLUBILITY WITH ALCOHOL

SOLUTION	REACTION	RESULT
1. DESI GHEE (BUTTER)		
2. VEGETABLE GHEE		
3. REFINED OIL		

OBSERVATIONS:

CONCLUSION:

GENERALIZATION:

III. SOLUBILITY WITH CHLOROFORM

SOLUTION	REACTION	RESULT
1.DESI GHEE (BUTTER)		
2. VEGETABLE GHEE		
3. REFINED OIL		

OBSERVATIONS:

CONCLUSION:

GENERALIZATION:

IV. TRANSLUCENT SPOT TEST

SOLUTION	REACTION	RESULT
1. BUTTER		
2.VEGETABLE OIL		
3.REFINED OIL		

OBSERVATIONS:

CONCLUSION:

GENERALIZATION:

V. ACROLEIN TEST

REAGENT: POTASSIUM BISULPHATE

SOLUTION	REACTION	RESULT
1.CLARIFIED BUTTER		
2.VEGETABLE OIL		
3.LINSEED OIL		

OBSERVATIONS:

CONCLUSION:

GENERALIZATION:

VI. BAUDOUIN TEST

SOLUTION	COLOR RXN	RESULT
1. BUTTER		
2. VEGETABLE OIL		

OBSERVATIONS:

CONCLUSION:

GENERALIZATION:

VII. HUBLE'S TEST

SOLUTION	COLOR RXN	RESULT
1. COTTON SEED OIL		
2. LINSEED OIL		

OBSERVATIONS:

CONCLUSION:

GENERALIZATION:

GENERAL QUESTIONS:

- 1.) Which Lipids tested are soluble in water?
- 2.) From your observations what do you conclude about the density of the lipids with respect to water (less, more, the same)? Explain.
- 3.) Which compounds tested positive for the Acrolein test?
- 4.) Which compounds tested negative for the Acrolein test?

SUBMITTED TO: **DR. ROMEO T. CRUZ, JR.**