**BCH 302 practical**

**Lab Sheet #7**

**Lipids-II**

**1-Copper acetate Test:**

* Pipette 3 ml of petroleum ether.
* Pipette 3 ml of copper acetate.
* Pipette 0.5 ml of sample.

|  |  |  |
| --- | --- | --- |
| **Comments** | **Observation** | **Tube** |
|  |  | **Olive oil** |
|  |  | **Oleic acid** |

**2-Qualitative estimation of Cholesterol by Liebermann - Burchard Test:**

* Pipette in 2 ml of chloroform in a dry small flask
* Dissolve a few crystals of cholesterol in chloroform
* Now add 10 drops of acetic anhydride
* Add 2 to 3 drops of conc. sulfuric acid

|  |  |  |
| --- | --- | --- |
| **Comments** | **Observation** | **Tube** |
|  |  | **Cholesterol** |
|  |  | **Olive Oil** |

* Repeat the reaction with olive oil and Record your result

**Unsaturation Test:**

**Equally into each 3 flask**

* Add 10 ml of Chloroform
* Add 10 drops of Hub’s iodine reagent, the chloroform shows **pink color due to presence of iodine.**
* Add the oil sample drop by drop every 30 seconds,
* Shake the flask vigorously after addition of each drop until the pink color is discharged and **count the number of drops**.

|  |  |  |
| --- | --- | --- |
| **Sample** | **Number of drops added from the sample** | **Conclusion** |
| **Mustard oil** |  |  |
| **olive oil** |  |  |
| **coconut oil** |  |  |
| **saturated fat** |  |  |