**BCH 302 practical**

**Lab Sheet #4**

**Carbohydrates-I**

**1-Molisch Test:**

1st tube :(2ml of a sample solution + 0.5 ml of the molisch’s reagent).

Then add 2ml of concentrated sulfuric acid (becareful!!!!)

|  |  |
| --- | --- |
| Observation | Tube |
|  | Glucose |
|  | Lactose |
|  | Starch |

**2- Benedict's Test:**

(1ml of a sample solution + 2ml of the benedict’s reagent)🡪 heated in a boiling water bath for 3mins*.*

|  |  |
| --- | --- |
| Observation | Tube |
|  | Glucose |
|  | Sucrose |
|  | Lactose |

**3-Barfoed's Test:**

(1ml of a sample solution + 3ml of barfoed’s reagent)🡪 heated in a boiling water bath for 3mins

|  |  |
| --- | --- |
| Observation | Tube |
|  | Glucose |
|  | Fructose |
|  | Lactose |

**4-Bial's Test:**

(2ml of a sample solution + 2ml of bial’s reagent)🡪 heated in a boiling water bath for 3mins

|  |  |
| --- | --- |
| Observation | Tube |
|  | Glucose |
|  | Ribose |

**5- Seliwanoff's Test:**

(1.5 ml of a sample solution + 2ml of seliwanoff’s reagent) 🡪 heated in a boiling water bath for 3mins

|  |  |
| --- | --- |
| Observation | Tube |
|  | Glucose |
|  | Fructose |