**Lab (7)**

**Estimation of Total phenolic content in different plants**

**Method**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tube** | **Catechol standard 5mg/100ml** | **Sample**  **(ml)** | **Dist. H2O (ml)** | **Folin-Ciocalteu reagent (ml)** | **Wait**  **3 min** | **Na2CO3**  **(ml)** |
| **Blank** | -- | -- | 4 | 0.5 ml | 2 ml |
| **1** | 0.2 | -- | 3.8 |
| **2** | 0.4 | -- | 3.6 |
| **3** | 0.6 | -- | 3.4 |
| **4** | 0.8 | -- | 3.2 |
| **5** | 1 | -- | 3 |
| **6** | 1.2 | -- | 2.8 |
| **7** | 1.4 | -- | 2.6 |
| **Black tea** | -- | 0.2 | 3.8 |

**Results:**

|  |  |  |
| --- | --- | --- |
|  | **Absorbance at 650 nm** | **Concentration (mg/dl)** |
| **1** | **0.235** |  |
| **2** | **0.528** |  |
| **3** | **0.912** |  |
| **4** | **1.242** |  |
| **5** | **1.574** |  |
| **6** | **1.853** |  |
| **7** | **2.461** |  |
| **Black tea** |  |  |