**BCH 302 practical**

**Lab Sheet #1**

***Qualitative test of Amino acids***

***General Idea of this lab:…………………………………………………………………….***

**1.Solubility test:**

**Aim:…………………………………………………………………………….**

|  |  |  |  |
| --- | --- | --- | --- |
| **Amino acids**  **solvents** | **Result** | | |
| **glycine** | **Lysine** | **Arginine** |
| **HCL** |  |  |  |
| **NaOH** |  |  |  |
| **Chloroform** |  |  |  |

**4ml of each solvent in test tube+ 1m of each amino acid.**

* **Conclusion:**

**…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..**

**2. Ninhydrin test:**

**Aim: …………………………………………………………………………………………….**

**- 1 ml of each amino acids+ 1 ml of ninhydrin boil 2 min in water.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tube** | | **result** | **Conclusion** |
| **A** | **Glycine** |  |  |
| **B** | **Tryptophan** |  |  |
| **C** | **Proline** |  |  |

**Conclusion:**

**…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..**

***3-Xanthoproteic test:***

***Aim:……………………………………………………………………………………………………………………….***

**A-1ml of each amino acid +1 ml of HNO3 record your result below.**

**B-Then cool thoroughly under the tap, After that add few drops of 10 M NaOH and notice the color(this step to confirm the nitration step ).**

|  |  |  |
| --- | --- | --- |
| **Tube** | **Observation** | |
| **+ HNO3** | **+ NaOH** |
| **Tyrosine** |  |  |
| **Tryptophan** |  |  |
| **plenylalnin** |  |  |
| **phenol** |  |  |

**Conclusion:**

**…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..**

***4-Sakaguchi Test:***

**Aim:………………………………………………………………………….**

**- 2 ml of each amino acid + 2 ml NaOH (mix well) +2 ml of α-naphthol (mix well) +0.5 ml sodium hypobromite.**

|  |  |  |
| --- | --- | --- |
| **Tube** | **Observation** | **Conclusion** |
| **Glycine** |  |  |
| **Arginine** |  |  |

**Conclusion:…………………………………………………………**