|  |  |  |  |
| --- | --- | --- | --- |
| **Tube**  **Amino acids** | **Result** | | |
| **glycine** | **lysine** | **Arginine** |
| **HCL** |  |  |  |
| **NaOH** |  |  |  |
| **Chloroform** |  |  |  |

**BCH 302 Practical**

**First Lab: Qualitative test of Amino acids**

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

**2. Ninhydrin test: 1 ml of each amino acids+ 1 ml of ninhydrin boil 2 min in water**

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

**3-Xanthoproteic test: 1ml of each amino acid +1 ml of HNO3 record your result below**

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

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

**Millon test:2ml of amino acid+1 ml HNO3+ 5 drops of sodium nitrate->boil for 10 min,**

|  |  |  |
| --- | --- | --- |
| **Tube** | **Result** | **conclusion** |
| **Tyrosine** |  |  |
| tryptophan |  |  |
| Phenol |  |  |

**Sakaguchi Test: 2 ml of each amino acid + 2 ml NaOH(mix well)+2 mlα-naphthol(mix well)+0.5 ml sodium hypobromite**

|  |  |  |
| --- | --- | --- |
| **Tube** | **Observation** | **conclusion** |
| **Glycine** |  |  |
| **Arginine** |  |  |