**BCH 333**

**Paper and Thin Layer Chromatography**

**Method:**

**You are provided with** silica gel Thin Layer Chromatography [TLC] plate and paper chromatography[PC].

**1.**Draw a sample starting line (base-line)about 2.5 cm from the bottom of the TLC plate and PC paper,

**2.** divide it uniformly then apply one small drop of each sample, **allow to dry.**

**3.**Label your TLC plate and PC, then place them in the solvent chamber. Do not forget to cover the solvent chamber.

**4.**Leave them for 45 min ( or until the level of the solvent is 2 cm from the top).

**5.** Remove TLC plate and PC paper from the solvent chamber draw a line to mark the solvent front.

**6.**Spray the TLC plate and PC paper with ninhydrin, Wear gloves be very careful ninhydrin is carcinogenic.

**7.**Put the TLC plate and PC paper, In the oven until color develops.

**Results:**

Rf value is =…………………………………………………………

**1.** **paper chromatography[PC].**

Distance migration by solvent front = ……………………

|  |  |  |
| --- | --- | --- |
| **Sample** | **Distance** | **Rf** |
| **Phe standard** |  |  |
| **cys standard** |  |  |
| **U1** |  |  |
| **U2** |  |  |

**2.Thin Layer Chromatography [TLC] plate**

Distance migration by solvent front =……………………………

|  |  |  |
| --- | --- | --- |
| **Sample** | **Distance** | **Rf** |
| **Phe standard** |  |  |
| **cys standard** |  |  |
| **U1** |  |  |
| **U2** |  |  |