**Method:**

1. Weight 10 g of sample into a beaker and add 1 ml of 10% NaOH solution and 12 g NaCl.
2. Add sufficient water to bring the vol. up to about 50 ml and let it stand for 30 min. with frequent shaking.
3. Add 1 drop of ph.ph (the color will change), add drops of HCl until the color change (disappear), then add excess 3 ml HCl.
4. Add 25 ml of chloroform.
5. Transfer into separator funnel.
6. Let it stand for 20 min with frequent shaking.
7. Transfer 12.5 ml of the chloroform layer (lower layer) into a conical flask and evaporate of the chloroform on a steam bath.
8. Add 50 ml of 50% ethanol solution.
9. Titrate with 0.05 M NaOH add 1 drops of ph.ph as indicator.
10. Calculate the amount of sodium benzoate in the sample.

**Result and calculation:**

**Amount of 0.05 M NaOH needed for titration is:…………….ml**

**Calculation:**

**…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………**