Appendices
1. **Acetyl acetone reagent**

   (a) Acetyl acetone........................0.75 ml

   (b) Ammonium acetate (2 mol)......100 ml

   Diluted (a) with (b) and stored at 4°C. Used only one hour after its preparation.

2. **Ammonium acetate (2 mol)**

   (a) Ammonium acetate...................15.4 g

   Dissolved this in distilled water and the volume was made to 100 ml finally.

3. **I- amino - 2- naphthol - 4- sulphonic acid (ANSA) reagent.**

   (a) Sodium bisulphite ....................12 g

   (b) Sodium sulphate ....................2.4 g

   (c) ANSA ....................................0.2 g

   (a), (b) and (c) were dissolved in distilled water and volume was made to 250 ml. After 3h, filtered the solution to remove any undissolved material. Stored in brown bottle at 4°C.
4. Anthrone reagent

(a) Anthrone..................................0.02 g

(b) Concentrated sulphuric acid..................100 ml

Dissolved (a) and (b) and reagent was utilized afresh always.

5. Ferric chloride acetic acid reagent

(a) Ferric chloride..........................0.05 g

(b) Glacial acetic acid ..................100 ml

Dissolved (a) and (b) and used fresh.

6. Folin Ciocalteau reagent

This was commercially available and was diluted to 1 : 1 with distilled water before use.

7. Lowry reagent

(a) Copper sulphate..........................1%

(b) Sodium carbonate.......................2% (in 0.1 N NaOH)

(c) Sodium potassium tartarate........2%

Mixed 0.5 ml of each of (a) and (c) with 49 ml of (b). Always used fresh.
8. **Phosphovanillin reagent**

   (a) vanillin solution (0.6% in d.w).........20 ml
   (b) Orthophosphoric acid.......................80 ml

   Thoroughly mixed (a) and (b). Always used fresh.

9. **Sodium metaperiodate reagent**

   (a) Sodium metaperiodate............0.6 g
   (b) Glacial acetic acid...................5 ml.

   Dissolved (a) in distilled water and then added (b) into that solution and volume was made to 100 ml with distilled water.