

APPENDIX 1

Reagents for estimation of iron in the tablets by the method of Wong (Oser, 1979).

1. Mixture of concentrated HNO_3 and H_2SO_4 (5:1).
2. Saturated potassium persulfate solution: seven to eight gms of reagent grade iron-free potassium persulfate were shaken with 100 ml of water in a glass stoppered bottle. The reagent was stored in the refrigerator.
3. 3 N Potassium thiocyanate solution: 146 g of reagent grade potassium thiocyanate were dissolved in water and volume made to 500 ml. The solution was discarded if it turned yellow.
4. The standard iron solution: 0.702 g of reagent grade crystalline ferrous ammonium sulfate was dissolved in 100 ml of water. Five ml of concentrated H_2SO_4 were added to this and the solution was warmed slightly. Saturated potassium permanganate solution was then added, drop by drop, until 1 drop produced a permanent pink color. It was then transferred to a 1 litre volumetric flask with rinsings and diluted to the mark. This solution contained 0.1 mg of ferric iron per ml.