

# **NEW ANALYTICAL METHOD DEVELOPMENT FOR THE ACTIVE PHARMACEUTICAL INGREDIENTS USING VISIBLE SPECTROPHOTOMETRY**

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## **ABSTRACT**

Method-A, depends on the oxidation of Teicoplanin with ferric chloride and 1,10-phenanthroline to form a blood red colored chromogen. The Method B is based on reaction of Teicoplanin with ferric chloride 2,2' bipyridyl to form blood colored chromogen. Method C is based on the reduction of Ferric ions of the reagent Ferric chloride to Ferrous ions by the drug. The Method A is based on the formation of golden yellow colored chromogen, due to ion-association of Tenofovir with Metanil Yellow dye in Chloroform. Method B is based on the formation of golden yellow colored chromogen due to ion-association of Tenofovir with Solochrome Black dye in Chloroform,. The Method C is based on the formation of blood red colored chromogen with Ferric Chloride and 2,2-Bipyridyl . Methods (A, B and C) and Methods (A, B and C) have been developed for the estimation of Tenofovir Disoproxil Fumerate and Emtricitabine in its pharmaceutical dosage form.

**KEYWORDS:** Spectrophotometry, Quantitative Analysis, Pharmaceutical Analysis