

A Review on the Different Techniques Used In Pharmaceutical Analysis.

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Abstract:-

Objective :- The aim this study to different techniques used in pharmaceutical analysis.

Method:-Pharmaceutical analysis is a branch of analytical techniques in which study the different method for identification, quantification, purification and determination of a drugs. The field of pharmaceutical analysis is dominant in the quality, quantity, purity, safety & efficacy of medicinal products. Various analytical techniques used in pharmaceutical analysis to assess the identity, purity, potency & stability of drugs . Various analytical techniques From classical method Titrimetry & Gravimetry and From modern instrumental techniques like electrochemical method of analysis, spectroscopy (Uv spectroscopy, Fluorometry, NMR spectroscopy) , Mass spectroscopy, Chromatography (HPLC, GC, TLC,PC, HPTLC) and others, each techniques are important role played on pharmaceutical analysis. This modern analytical techniques used in estimation the quality of drugs.

Result :- There are different analytical techniques available to analyse drug and estimate the quality & quantity of drugs. From classical method Titrimetry and Gravimetry techniques used to determine the quantity of drugs but this technique are oldest analytical techniques because currently many modern analytical techniques are developed. Instrumental method are employed in seperation, quantification, purification & efficacy estimation of chemical compounds. This instrument analytical techniques are also called advanced or modernanalytical techniques.

Conclusion:- This review paper provides an overview of different techniques used in pharmaceutical analysis. This paper discuss the introduction, principal, process and application of different analytical techniques used in pharmaceutical analysis. This different techniques employed for identify, seperation, quantity, purify & determine the medicinal products. The main aim of the pharmaceutical drugs is to diagnose, treatment and prevention of disease. This different analytical techniques to important role played on estimation of quality, quantity and safety of drugs. This review paper also highlights the difference between Titrimetry, Gravimetry method and modern advanced analytical methods.

Keywords – Pharmaceutical Analysis, Advanced analytical techniques, Titrimetry, Gravimetry, Chromatography, Spectroscopy, Electrochemical method of analysis .

