



## BIOANALYTICAL TECHNIQUES – AN OVERVIEW

T. S. Bande, K. S. Agrawal, A. M. Rathi

S. G. S. P. S. Institute of Pharmacy, Akola

### ABSTRACT:

Bioanalytical techniques revolutionise measurement of minute quantities of metabolites and their impact, the subsequent findings are of significance for applying Analytical and Bioanalytical techniques in clinical and medical procedures. Bioanalytical techniques help in quantitative measurement of xenobiotics and several forms of drugs and their metabolites, as part of entire biological systems and the quantitative measurement of the individual biotic component like proteins, DNA, macromolecules, and large molecules. The development of the bioanalytical techniques brought a progressive discipline for which the future holds many exciting opportunities to further improvement. The purpose is to perform the pharmacokinetics, toxicokinetics, bioequivalence and exposure response like pharmacokinetic / pharmacodynamic studies. Various bioanalytical techniques are performed in bioanalytical studies such as hyphenated techniques, chromatographic techniques, and ligand binding assays. This review extensively highlights the role of bioanalytical techniques and hyphenated instruments in assessing the bioanalysis of the drugs.

**Keywords:** Bioanalysis, Pharmacokinetics, Bioequivalence, Metabolites.

**Corresponding Author:** T. S. Bande

Indian Research Journal of Pharmacy and Science; 19(2018)1769;  
Journal Home Page: <https://www.irjps.in>