Plan work and Methodology:

1. Review of literature on Metformin hydrochloride and Glimepiride was done from journals, books, codex, pharmacopoeia etc.

2. Preformulation studies will be carried out by standard procedure mentioned in standard books like Indian pharmacopoeia or according to the guidelines mentioned in USFDA.

3. Prototype Formulation of Metformin Hydrochloride and Glimepiride

4. Physical characteristics of granules of both metformin hydrochloride and glimepiride carried out by standard procedure.

5. Preparation of Bilayer Tablets.


8. In-vitro dissolution test by using standard apparatus USP type-II dissolution apparatus, also called paddle type dissolution apparatus.

9. Similarity factor F2, is calculated for comparing release kinetics for both bioequivalence of in house developed and marketed products.

10. Preclinical trials

11. Analytical studies and data interpretation.