The objectives of the proposed research work are:

- To develop analytical and Bioanalytical methods for Tolbutamide.
- To validate methods in accordance to US FDA and ICH guidelines.
- To assess ADME properties through *in-vitro* and *in-vivo* studies:
  - *in-vitro* (i.e. aqueous solubility, Phase-I metabolism, CYP inhibition, permeability, protein binding)
  - *in-vivo* (rodent pharmacokinetic studies)