Aim:

The aim of the present research work is to find an effective biotransformation process for the production of 18β-glycyrrhetinic acid from glycyrrhizin of Glycyrrhiza glabra root.

Objectives:

1. Screening of microbial strain capable of producing β-glucuronidase enzyme and bioconversion of glycyrrhizin to 18β-glycyrrhetinic acid.
2. Biotransformation of glycyrrhizin to 18β-glycyrrhetinic acid by immobilized β-glucuronidase enzyme.
3. Biotransformation of glycyrrhizin to 18β-glycyrrhetinic acid by immobilized micro organisms (Fungal/Bacterial).
4. Bioconversion of glycyrrhizin to 18β-glycyrrhetinic acid by solid state fermentation.
5. The merits and demerits of aglycone (18β-glycyrrhetinic acid).