

**CHAPTER-IX****9. SALIENT FEATURES OF THE STUDY**

Thorough study has been conducted during the last five years of research work and based on that it can be concluded that the plant *Morus indica* L., which is utilized by the traditional herbal practitioner of Kokrajhar, Assam is having very good antioxidant properties as well as hepatoprotective activity. Some of the salient features of the study are as follows:

1. From the survey as well as literature review, it was found that 4 plants (*viz.* *Pogostemon plectranoides* Desf., *Amphineuron opulentum* (Kaulf.), *Hygrophila plumoides* Nees. and *Morinda angustifolia* Roxb.) out of 40 different medicinal plants surveyed for the study, were not reported earlier to have hepatoprotective activity and no significant scientific work were carried out.
2. The roots of *Morus indica* L. is bestowed with excellent antioxidant property and also showed good hepatoprotective activity.
3. Ligands selected from the GC-MS analysis also provided good binding affinity with the NF $\kappa$ B (1NFK) and COX-2 (3LN1) anti-inflammatory proteins and were also comparable with that of proven standard drugs.