4 OBJECTIVES OF THE INVESTIGATION

The physicochemical, pharmacokinetic and pharmacological properties of drug candidates make it an appropriate drug for the formulation and development of in-situ gel for brain targeting through intranasal route hence, the long-term objectives of the present work are –

- To study the compatibility profile of drug candidates and excipients using FTIR and DSC analysis.
- To develop analytical method for drug candidates by UV-Vis Spectrophotometric method.
- To formulate and develop in-situ thermoreversible mucoadhesive intranasal gel of Naratriptan.
- To optimize the formulation variables.
- To formulate and develop ethosomes of Naratriptan hydrochloride, Eletriptan hydrobromide and Zolmitriptan.
- To optimize the formulation variables.
- To formulate, develop, optimize and evaluate ethosomal thermoreversible mucoadhesive in-situ intranasal gel of Naratriptan hydrochloride.
- To formulate, develop, optimize and evaluate ethosomal thermoreversible mucoadhesive in-situ intranasal gel of Eletriptan hydrobromide.
- To formulate, develop, optimize and evaluate ethosomal thermoreversible mucoadhesive in-situ intranasal gel of Zolmitriptan.