2. AIM AND OBJECTIVES

2.1. Aim

The aim of the current study is to evaluate cholinesterases (Acetyl cholinesterase (AchE) and Butyryl cholinesterase (BuchE)) activity of the plants having siddha traditional claim with CNS efficacy and to investigate the activity of those selected herbals through in vitro and in vivo by using Ellman’s assay and behavioural studies in mice thereby applicable in the treatment of Alzheimer’s disease (AD).

2.2. Objectives

The objectives for the designed study are summarized as given below

1. Identification, authentication and collection of selected plants based on the Siddha traditional claim with reported efficacy on CNS.

2. Extraction of active constituents from the selected herbs.

3. In vitro evaluation of herbal extracts for Acetyl cholinesterase (AchE) and Butyryl cholinesterase (BuchE) inhibitory activity.


5. In vivo evaluation of extracts and fractions for acute oral toxicity testing and memory deficits by using scopolamine induced memory impairment model in mice.