CHAPTER - 3

Aims and Objectives of the Present Investigation
CHAPTER-3

Chapter-3: Aims and objectives of the present investigation

<table>
<thead>
<tr>
<th>S No</th>
<th>Name of the subtitle</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Different methods of research</td>
<td>28</td>
</tr>
<tr>
<td>3.2</td>
<td>Brief description of pharmacological activity of selected drugs</td>
<td>28</td>
</tr>
</tbody>
</table>

3. AIMS AND OBJECTIVES OF PRESENT INVESTIGATION
1) The mean for developing the method is having the lower run times, higher sensitivity and stability indicating.

2) Objective was to reduce analysis time there by improving productivity, increasing the sensitivity of the method in order to detect the lower level of impurities present in the drug substance and drug product.

3) Overall, reduces the product development time and develop cost effective drugs.

3.1 Different methods of research:

- Review of Literature related to available analytical methods of selected drugs.
- Analytical methods development and validation for its intended use
- Performing the forced degradation stress studies of the drugs
- Optimization of RP-HPLC chromatographic method.
- Finalization of HPLC method after ensuring that there is a satisfactory separation of process impurities and degradation impurities generated from the drug substance during stability.
- Validation of the methods as per ICH guidelines.

3.2 Brief description of pharmacological activity of selected drugs:

I have selected the 8 novel therapeutic agents based on the potency. The details of the drugs are as follows:

- Eplerenone inhibits aldosterone used in the heart failures.
Pregabalin is a New Antiepileptic drug and has been approved for the treatment of diabetic neuropathy.

Lacosamide is an antiepileptic drug which acts through the voltage gated sodium channels.

Prasugrel reduce the aggregation of platelets.

Iloperidone is an antagonist of serotonin and dopamine sub receptors. It is used in the treatment of Psychosis.

Tolvaptan is an vasopressin type II receptor antagonist used in the treatment of congestive heart failure.

Asenapine is an psychosis treatment drug

Febuxostat is an xanthine oxidase inhibitor used in the treatment of gout.