

Chapter 2

AIMS

2.1 AIMS OF THE STUDY

The main aim of the present study was to investigate the various parameters that affect the fungal alpha amylase activity and to stabilize the fungal alpha amylase in oral pharmaceutical preparations.

The specific aims of the present study were:

1. to study the factors affecting the stability of fungal alpha amylase
2. to develop the stable oral formulation of fungal alpha amylase by addition of cofactor, refolding aids
3. to develop the stable acid resistant enterosoluble formulations for in-vivo stability
4. to prepare the inclusion complex with beta-cyclodextrin and to develop the stable formulation using the complex
5. to characterize the inclusion complex by instrumental analysis
6. to study the interaction of beta-cyclodextrin with alpha amylase by computational methods