CHAPTER 3

OBJECTIVES & RATIONALE
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OBJECTIVES

To produce high quality of angkak by using different Monascus species in rice based medium under solid-state fermentation and to study its antihyperlipidemic properties in animal model.

RATIONALE

1. Screening of best angkak producing Monascus species from the available strains.

2. Screening and optimization of medium parameters for production of high quality angkak under monoculture of Monascus species in rice based medium.

3. Optimization of process parameters of solid-state fermentation for production best quality angkak in monoculture system.

4. Screening and optimization of medium parameters for production high quality angkak under co-culture of two different Monascus species in rice based medium.

5. Optimization of process parameters of solid-state fermentation for production best quality angkak in co-culture system.

6. Changing the mycotoxin, citrinin levels in angkak by medium engineering.

7. Antihyperlipidemic effects of different angkak samples produced under different fermentation conditions.