

Table of Contents

CHAPTER- I.....	1
01 Introduction	1
1.1 <i>Spodoptera litura</i> Fabricius, 1775.....	1
1.2 Geographical distribution.....	5
1.3 Detection and identification	7
1.4 Extent of damage on different cultivars	9
1.5 Consumption and utilization of food	10
1.6 Means of movement and dispersal.....	13
1.7 Economic impact	13
1.8 Control.....	14
1.9 Phyto-sanitary risk	15
1.10 Phyto-sanitary measures	16
1.11 Biology & morphology of <i>Spodoptera litura</i>	16
1.12 Influence of biotic and abiotic factors on <i>S. litura</i>	37
CHAPTER- II	52
02 Review of literature.....	52
2.1 Work done in Gujarat.....	52
2.2 Work done in India	53
2.3 Work done Globally.....	57
CHAPTER- III	60
03 Materials and methods	60
3.1 Collection and mass multiplication of <i>S. litura</i>	60
3.2 Diet preparation for <i>S. litura</i>	66

3.3	Good laboratory practices	69
3.4	Experimental design.....	69
3.5	Morphometric changes when fed with different host plants	71
3.6	Statistical analysis and equations.....	72
	CHAPTER- IV	75
04	Results	75
	CHAPTER- V	86
05	Discussion.....	86
	CHAPTER- VI.....	93
06	Conclusion.....	93
	CHAPTER-VII	95
07	Significant findings	95
	CHAPTER- VIII	100
08	References	100