LIST	OF TABLES	
1.1	Differences between Type II and Type I polyketides	27
2a.1	List of microbial strains used in the study	60
2a.2	List of plasmids and constructs used in the study	62
2.3	Antibiotics used in the study	64
2.4	List of primers used in PCR studies	65
2.5	List of miscellaneous reagents	76
2.6	SDS-PAGE gel preparation	83
2.7	PCR protocols	89
3.1	Effect of the polyketide on different groups of micro-organisms.	95
3.2	Effect of Tris-EDTA-mediated permeabilization of cell envelope of <i>E. coli</i> on sensitivity to polyketide compound.	100
3.3	Response of natural and induced stationary phase culture of <i>M. luteus</i> to 10X MIC concentration of antibiotics.	103
3.4	Effect of the polyketide at MIC concentration, on nongrowing <i>M. luteus</i> over a period of time.	104
3.5	Difference in membrane rigidity as indicated by marked difference in values of control and test at different growth stages.	106
4.1	Inhibition of sarcinaxanthin production in Chromo ^r mutant using Diphenyl Amine. Figures in parentheses represent percentage inhibition over	ų
	control.	129
4.2	Cross resistance of adaptive mutants against the group of antibiotics.	131
4.3	Zone of inhibition of WT and Chromo ^r against selected antibiotics	132
4.4	Difference in the inhibition zone of WT and Dauno ^r against selective antibiotics	133

4.6	Effect of selective antibiotics on the Chromo ^r in presence of reserpine.	135
5.1	Response of S. <i>flavisclerotiucs</i> and S. griseus to various growth media at two time intervals.	159
5.2	Response of S. flaviscleroticus and S. griseus to increasing salt stress measured at two intervals	167
5.3	Response of S. <i>flaviscleroticus</i> and S. griseus to varying pH measured at two intervals	167
6.1	Comparative account of relevance of ORFs with the analogous protein in chromomycin cluster of <i>S. griseus</i> sub. griseus and other proteins based on homology search.	191
6.2	Homology to Conserved Domain based on which putative proteins were predicted.	195
6.3	Structural organization of various operons in the cluster and their presumptive role at different stages in chromomycin A_3 biosynthesis	200
7a.1	Functional determination by zone of inhibition study against chromomycin, for various resistance determinants.	228
7b.1	Relevance of <i>actRp</i> with consensus sequence and also with its counterpart from <i>S. griseus</i> .	243

.