List of tables

Table 1.1 Dental caries assessment in 5 and 12 years old caries-active subjects in Chennai city, Tamil Nadu, India 6
Table 1.2 List of plants used to study antimicrobial and anti-adhesion effects against S. mutans 33
Table 2.1 List and source of plant lectins used in this study 49
Table 3.1 Effect of crude extracts of M. alba, A. indica and S. cumini on the growth of oral pathogens 65
Table 3.2 MIC of crude extract of M. alba and purified component against MTCC strains of important oral microbes 71
Table 3.3 Effect of crude ethanolic extract of M. alba on the biofilm at different concentration and at varied phases of growth of MTCC 497 strain of S. mutans 75
Table 5.1 Quantitation of the adhered cells after EMS-induced mutagenesis on subculturing 106
Table 5.2 Percent of decrease in adherence of the mutants on the glass surface 108
Table 5.3 Initial adherence of the mutants 110
Table 5.4 Percent biofilm formation by the parent strain and sucrose-independent mutant strains at varied phases 111
Table 5.5 Average percent biofilm formation by the parent strain, sucrose-independent adherence defective mutants and sucrose-dependent adherence defective mutant strains 113
Table 5.6 Glucan formation by the adherence defective mutants of S. mutans 114
Table 5.7 Thickness of the biofilm viewed by CLSM 117
Table 5.8 Quantitation table of the proteins that show differential expression between group 1 (parent strain) and group 2 (mutants) 131
Table 5.9 Identification of at least 5 folds differentially expressed proteins in parent strain and mutants BSM3, BSM5 and BSM61 139