## **List of Table**

S.No.	Title	Page No.
1.1	ATP III Classification of LDL, Total, and HDL Cholesterol	8
1.2	Various classes of drugs used to lower cholesterol levels	11
2.1	Chronological history of statins discovery and development	20
2.2	Therapeutic applications of statins & possible underlying mechanism	23
2.3	Recent fermentation studies (2003-2013) for production of statins	37
3.1	Conditions for High performance liquid chromatography	45
3.2	Primer sequences for lovD gene amplification	50
3.3	Composition of basic 4X cocktail for each mix for 100 reactions	51
3.4	PCR amplification conditions for lovD gene	51
3.5	PCR conditions for HMGR gene expression in recombinant yeast	53
4.1	Primary screening of isolates for production of HMGR inhibitors	59
4.2	Isolates having high probability to produce HMGR inhibitors	65
4.3	Morphological characteristics of bacterial strains	68
4.4	Biochemical characteristics of bacterial strains	68
4.5	Optimum conditions for maximum product yield	75
4.6	Triglyceride release assay for SK-03 and SK-04	79
4.7	Summary of Infra red spectroscopy results	86
4.8	Triglyceride release assay for SK-02	91