List of Tables

Table No.	Title	Page No.
1.1.	<i>qnrVC</i> alleles and their association with MGEs	23
1.2.	Prevalence of quinolone resistance mechanisms in <i>Vibrio</i> and <i>Shigella</i> spp.	24
2.1.	Primers used in the triplex PCR assay, their sequences and their product length	35
2.2.	Primers used to screen quinolone resistance conferring genes and the PCR conditions for their amplification	45
2.3.	Primers used to amplify the QRDR regions of topoisomerase genes and the PCR conditions for their amplification	46
2.4.	Primers used for <i>qnrVC5</i> gene amplification	47
2.5.	PCR conditions for amplification of <i>qnrVC5</i> gene	47
2.6.	PCR Reaction mixture for amplification of <i>qnrVC5</i> gene	48
2.7.	BamHI and XhoI digestion of vector and insert	49
2.8.	<i>Nhe</i> I digestion analysis of pET-qnrVC5 clones	52
2.9.	Constituents of resolving (10%) and Stacking (5%) gel for SDS-PAGE	55
2.10.	Primers used for reverse transcription-PCR	58
3.1.	Analysis of specificity of triplex PCR using a variety of isolates/strains from the family of <i>Enterobacteriaceae</i> and <i>Vibrionaceae</i>	65
3.2.	Quinolone resistance profile for selected quinolone resistant isolates of <i>Vibrio</i> and <i>Shigella</i> spp.	72
3.3.	MIC of quinolones for Vibrio cholerae isolates	73
3.4.	MIC of quinolones for Vibrio fluvialis isolates	74
3.5.	MIC of quinolones for Vibrio parahaemolyticus isolates	75

Table No.	Title	Page No.
3.6.	MIC of quinolones for Shigella isolates	76
4.1.	Description of plasmid-mediated-quinolone resistance genes screened in this study	81
4.2.	Phenotype-genotype correlation in quinolone resistant isolates of <i>Vibrio cholerae</i>	84
4.3.	Phenotype-genotype correlation in quinolone resistant isolates of <i>Vibrio fluvialis</i>	85
4.4.	Phenotype-genotype correlation in quinolone resistant isolates of <i>Vibrio parahaemolyticus</i>	86
4.5.	Phenotype-genotype correlation in quinolone resistant isolates of <i>Shigella</i> species	88
4.6.	GenBank submissions and their accession numbers	89
5.1.	Quinolone susceptibility of Vibrio fluvialis isolates	105
5.2.	Quinolone susceptibility of <i>E. coli</i> transformants	106
5.3.	Silencing effect of <i>qnrVC5</i> gene in <i>Vibrio fluvialis</i> isolates	109
5.4.	MIC of quinolones for pET-qnrVC5 clone	111