

## LIST OF TABLES

S. No.	Table	Page No.
1.1	Importance of different vitamins to humans	3-5
3.1	List of microbial cultures procured from different culture collections	46
3.2	Composition of MRS medium	47
3.3	Composition of Folic acid assay medium	48
3.4	Composition of Folic acid <i>casei</i> medium	49
3.5	Composition of Reconstituted skim milk medium	50
3.6	Composition of nutrient agar medium	50
3.7	Composition of MRS medium supplemented with bile salts	51
4.1	Comparison of results from preliminary screening of folate production by the procured strains	66
4.2	A comparative chart of microorganisms for folate production in both MRS broth and reconstituted skim milk medium	67
4.3	Resistance of producer strains to gastric acidity in terms of acidic pH.	75
4.4	Bile Salt tolerance study of folate producer strains.	76
4.5	Antimicrobial activity of strains against potential pathogenic bacteria	77
4.6	Antibiotic susceptibility profiles of folate producer strains	78
4.7	Bile salt hydrolase activity of the folate producer strains	79
4.8	Cell Surface hydrophobicity activity of the folate producer strains	80
4.9	Results of optimization by OFAT method	89
4.10	Media factors used for folate production by <i>Streptococcus thermophilus</i> with their higher and lower level using PBD	91
4.11	Experimental conditions designed by using PBD for folate production by <i>Streptococcus thermophilus</i> and their results	92
4.12	Statistical analysis through PBD showing coefficients and effects for each factor on folate production	94
4.13	Media factors used for folate production with their five different	96

	levels using CCD	
<b>4.14</b>	Effect of significant factors on folate production based on CCD criterion	97
<b>4.15</b>	ANOVA study for folate production	98
<b>4.16</b>	Regression coefficients for response through RSM for folate production	99
<b>4.17</b>	Final optimum media constituents and cultural conditions for the maximum folate production in reconstituted skim milk medium	103
<b>4.18</b>	Efficacy and stability studies of fermented milk prepared by free cells of <i>S. thermophilus</i>	111
<b>4.19</b>	Efficacy and stability studies of fermented milk prepared by immobilized cells of <i>S. thermophilus</i>	112
<b>4.20</b>	Efficacy and stability studies of folate fortified fruit cake prepared by <i>S. thermophilus</i>	113
<b>4.21</b>	Efficacy and stability studies of folate fortified orange juice with added PABA and glutamate by <i>S. thermophilus</i>	114
<b>4.22</b>	Efficacy and stability studies of folate fortified tomato juice with added PABA and glutamate by <i>S. thermophilus</i>	114
<b>4.23</b>	Efficacy and stability studies of folate fortified tomato juice with added PABA and glutamate by <i>S. thermophilus</i>	115