

LIST OF CONTENT

	Page
ENDORSEMENT FORM	ii
DECLARATION.....	iii
IDENTITY	iv
ABSTRACT	vi
ACKNOWLEDGEMENT.....	vii
LIST OF CONTENT	ix
LIST OF TABLE	xi
LIST OF FIGURE	xii
LIST OF APPENDIX	xiii
ABBREVIATIONS AND SYMBOLIC MEANING.....	xiv
CHAPTER 1 INTRODUCTION	1
1.1. Background	1
1.2. Problem Formulation	4
1.3. Theoretical Basis	4
1.4. The Aim of Research	5
1.5. Outcome of Research	6
1.6. Hypothesis.....	6
CHAPTER 2 LITERATURE REVIEW	7
2.1. Malang District.....	7
2.1.1. Geography Location.....	7
2.1.2. Climate Condition.....	7
2.1.3. Koperasi Unit Desa Karangploso.....	8
2.2. Milk Overview	10
2.2.1. Milk.....	10
2.2.2. Milk Composition	11
2.2.3. Affecting Factors to Milk Productions and Milk Quality	13
2.2.3.1. Physiological Factors.....	13
2.2.3.2. Environmental Factors	13
2.2.3.3. Milking Management.....	14
2.3. Bacteria in Raw Milk	15
2.3.1. <i>Salmonella sp.</i>	16

2.3.2. <i>Escherichia coli</i>	17
2.3.3. <i>Coliform</i>	17
2.3.5. <i>Staphylococcus aureus</i>	18
2.4. Count of Total Bacteria Contamination in Raw Milk using Total Plate Count (TPC) Method	19
CHAPTER 3 METHODS AND MATERIALS	21
3.1. Time and Place of Research	21
3.2. Materials of Research	21
3.2.1. Research Equipments	21
3.2.2. Research Substances	21
3.3. Research Method	22
3.3.1. Sampling Method	22
3.3.2. Media Preparation	22
3.3.3. Sample Obtaining	23
3.3.4. Total Plate Count Method	23
3.4. Sampling Design	24
3.5. Research Flow Chart	25
CHAPTER 4 RESULT	26
4.1. Samples Collection from KUD Karangploso Malang	26
4.2. Standard Plate Count	26
CHAPTER 5 DISCUSSION	30
CHAPTER 6 CONCLUSION	33
SUMMARY	34
REFERENCES	36
APPENDICES	40

LIST OF TABLE

Table	Page
2.1. Members of KUD Karangploso Malang	9
2.2. Total Numbers of Livestock Population and Milk Production in The Working Area of KUD Karangploso Malang	10
2.3. Raw Milk Quality Requirements, SNI No. 7388-2009	12
4.1. Standard Plate Count of Raw Milk Samples from KUD Karangploso Malang	27



LIST OF FIGURE

Figure	Page
3 .1. Research Flow Chart.....	25



LIST OF APPENDIX

Appendix	Page
Appendix 1. List of Farmers from KUD Karangploso Malang	40
Appendix 2. Total Plate Count Result of Milk Samples from Different Farmers of KUD Karangploso Malang	50
Appendix 3. Figures of Total Plate Count	51
Appendix 4. Housing and Bedding Conditions	53
Appendix 5. Research Documentations	55



ABBREVIATIONS AND SYMBOLIC MEANING

°C	=	Degrees of Celsius
°SH	=	Degrees of Soxhlet Henkel
BMKG	=	Meteorology and Geophysics Climatology
BPW	=	Buffer Phosphat Water
CFU	=	Colony Forming Unit
FH	=	Friesian Holstein
LAB	=	Lactic Acid Bacteria
NPN	=	Non Protein Nitrogen
PCA	=	Plate Count Agar
pH	=	power of Hydrogen
ppm	=	parts per Million
SNI	=	Standard Nasional Indonesia
SPC	=	Standards Plate Count
TPC	=	Total Plate Count

