

**CHEMICAL AND MICROBIOLOGICAL ANALYSIS OF RAW MILK
SAMPLES FROM WAYANAD COW SPECIES AND BEETLE GOAT
SPECIES**

A Dissertation Submitted to St. Teresa's College (Autonomous), Ernakulam

In Partial Fulfilment of The Requirement

For The Award Of

DEGREE OF MASTER OF SCIENCE IN ZOOLOGY



SUBMITTED BY

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2021-2023

CERTIFICATE

This is to certify that the dissertation entitled ‘**Chemical and Microbiological analysis of raw milk samples from Wayanad Cow Species and Beetle Goat Species**’ submitted to St. Teresa’s College (Autonomous), Ernakulam, in partial fulfillment of the requirement for the award of the degree of Master of Science in Zoology is an authentic work carried out by **Ms. MAREENA CHRISTY** (SM21ZOO007) in the academic year 2021-2023 under the guidance and supervision of **Mr. Justin** (External Guide), Assistant Quality Assurance Officer, Milma, Wayanad Diary and **Mrs. Indu Vasudevan** (Internal Guide), Assistant Professor, Department of Zoology, St. Teresa’s College, Ernakulam.

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DECLARATION

I, hereby declare that this project work entitled “**Chemical and Microbiological Analysis of raw milk samples from Wayanad cow species and Beetle Goat Species**” submitted to St. Teresa’s College (Autonomous), Ernakulam affiliated to Mahatma Gandhi University, Kottayam in partial fulfillment of requirements, for the award of Master of Science degree in Zoology is a record of original research work done by me under the supervision and guidance of **Mr. Justin** (External Guide), Assistant Quality Assurance Officer, Milma, Wayanad Dairy and **Mrs. Indu Vasudevan** (Internal Guide), Assistant Professor, Department of Zoology, St. Teresa’s College, Ernakulam. To the best of my knowledge and belief, this project work has not been undertaken or submitted elsewhere in connection with any other academic course and contains no material previously published or written by another person, except where due reference is made.

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ACKNOWLEDGMENT

I hereby express my deepest gratitude to God Almighty for blessing me in completing this project. I am indebted to my parents with respect, without their blessing and support I could not have been able to complete this work.

I convey my heartfelt respect and gratitude to my external project guide **Mr. Justin** (Asst. Quality Assurance Officer, Milma, Wayanad Dairy), for his extreme patience, assistance, and support throughout the work.

I convey my in-depth gratitude to **Mrs. Indu Vasudevan**, Assistant Professor, Department of Zoology, St. Teresa's College (Autonomous), Ernakulam, my supervising teacher whose consistent support has helped me throughout the work for making its end meet success.

My sincere gratitude to **Dr. Soja Louis**, Head of the Department, Department of Zoology, St. Teresa's College (Autonomous), Ernakulam for her constant guidance, support, and valuable suggestions for the successful completion of my project work.

I sincerely thank our principal **Dr. Alphonsa Vijaya Joseph**, St Teresa's College, Ernakulam for her valuable support.

Special thanks to **Mrs. Gayathri R, Dr. Damaris Benny Daniel, & Dr. Helvin Vincent** for their support and valuable suggestion throughout. Also, I am very much obliged to my friends and other staff of Wayanad Milma Dairy for their help and support during my project work.

MAREENA CHRISTY

LIST OF ABBREVIATIONS

SL. NO.	ABBREVIATION	EXPANTION
1.	%	PERCENTAGE
2.	°C	DEGREE CELSIUS
3.	pH	POTENTIAL OF HYDROGEN
4.	ml	MILLILITRE
5.	rpm	REVOLUTIONS PER MINUTE
6.	lbs	POUND MASS
7.	BMC	BULK MILK COOLERS
8.	CLR	CORRECTED LACTOMETER READING
9.	SNF	SOLIDS NOT FAT
10.	MBRT	METHYLENE BLUE REDUCTION TEST
11.	COB	CLOT ON BOILING TEST
12.	SPC	STANDARD PLATE COUNT
13.	DNA	DEOXYRIBONUCLEIC ACID
14.	WHO	WORLD HEALTH ORGANIZATION
15.	LA	LACTIC ACID
16.	NaOH	SODIUM HYDROXIDE
17.	UV	ULTRA VIOLET
18.	EMB	EOSINE- METHYLENE BLUE
19.	VRBA	VIOLET RED BILE AGAR
20.	Cfu	COLONY FORMING UNIT
21.	UTH	ULTRA-HIGH TEMPERATURE MILK

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