

Tinsukia College

Tinsukia

PROJECT REPORT ON MICROBIOLOGY OF WATER OF SOME AREAS IN
TINSUKIA DISTRICT

A DISSERTATION A PART OF B.Sc (MAJOR) BOTANY SYLLABUS



*Physico-chemical and Microbial analysis of
drinking Water Quality of some areas of
Tinsukia with special reference to
'COLIFORM BACTERIA'*

SUBMITTED BY –

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YEAR- 2018

Preface

This project report is the combination of records of our Experimental work on microbiology of water based on botanical study. Being a student of B.Sc 6th semester Botany (Major) of Tinsukia College we have undertaken this Project report entitled 'Physico-chemical and microbial analysis of drinking water quality of some areas of Tinsukia with special reference to COLIFORM BACTERIA', as a part of the syllabus under Dibrugarh University during the session 2017-2018. This report has been made full care following the various suggestions received from teachers. It is hoped that this report will be accepted under due consideration.

Examine &
22.05.2018

Certificate

This is to certify that Sanjay Harijan, student of B.Sc 6th semester, Botany (Major) of Tinsukia College has completed his project work report entitled 'Physico-chemical and microbial analysis of drinking water quality of some areas of Tinsukia district with special reference to Coliform Bacteria' successfully as a part of the syllabus (for the session 2017-2018) under my guidance.

This is an abona fide record performed by him.

He is being wished with the very best of his luck for the future.

Date: 26-4-2018

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Associate professor & HOD

Department of Botany

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Tinsukia

HEAD
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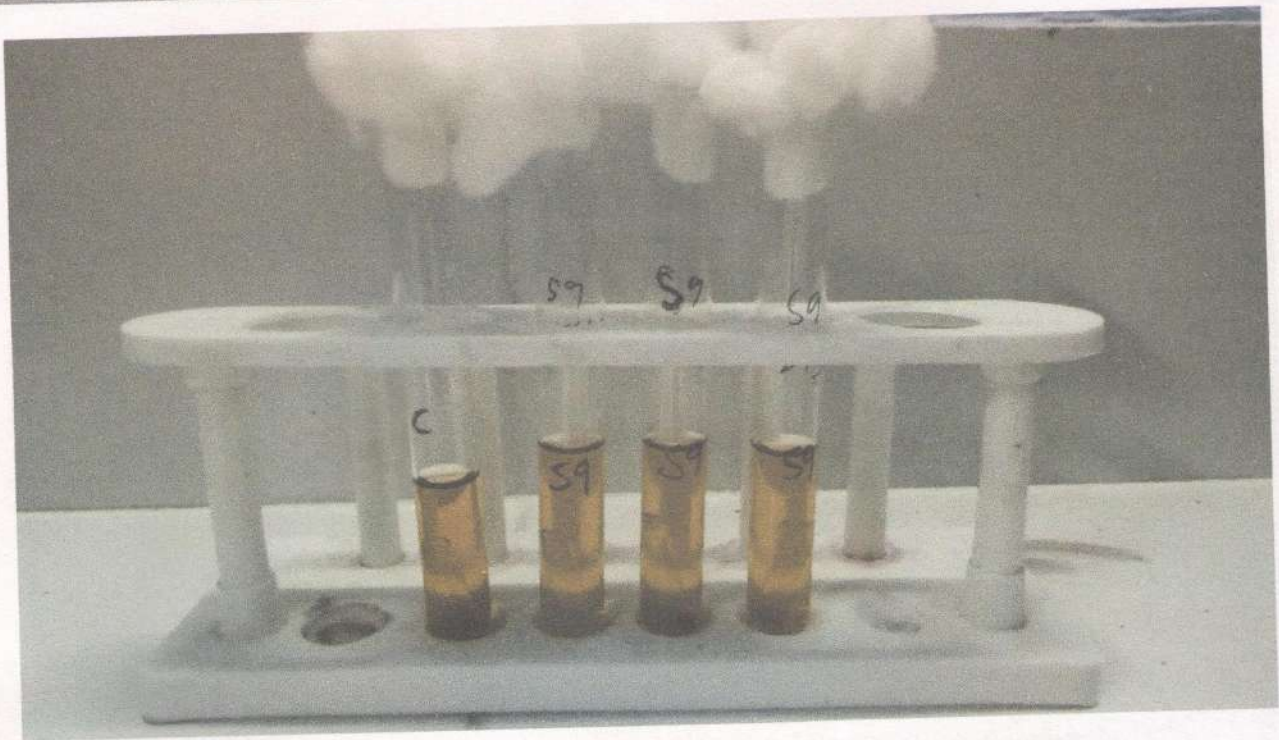
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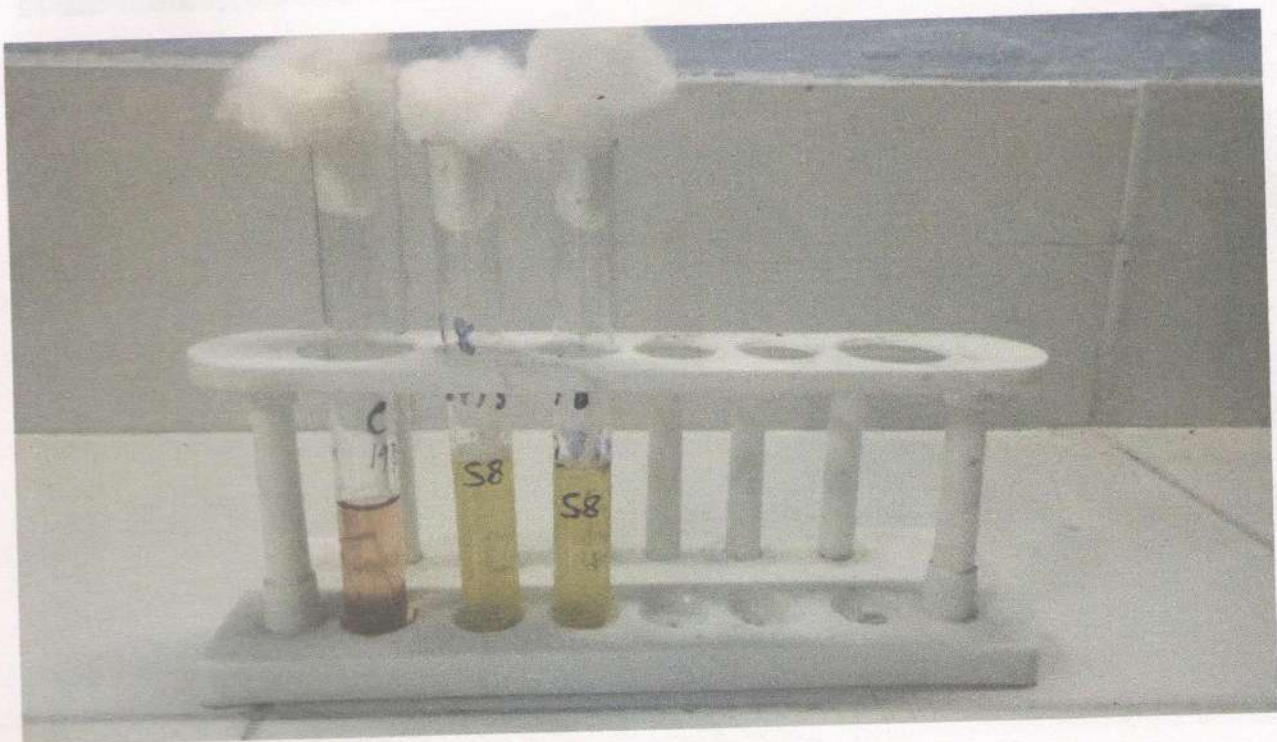
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PHOTOGRAPHS



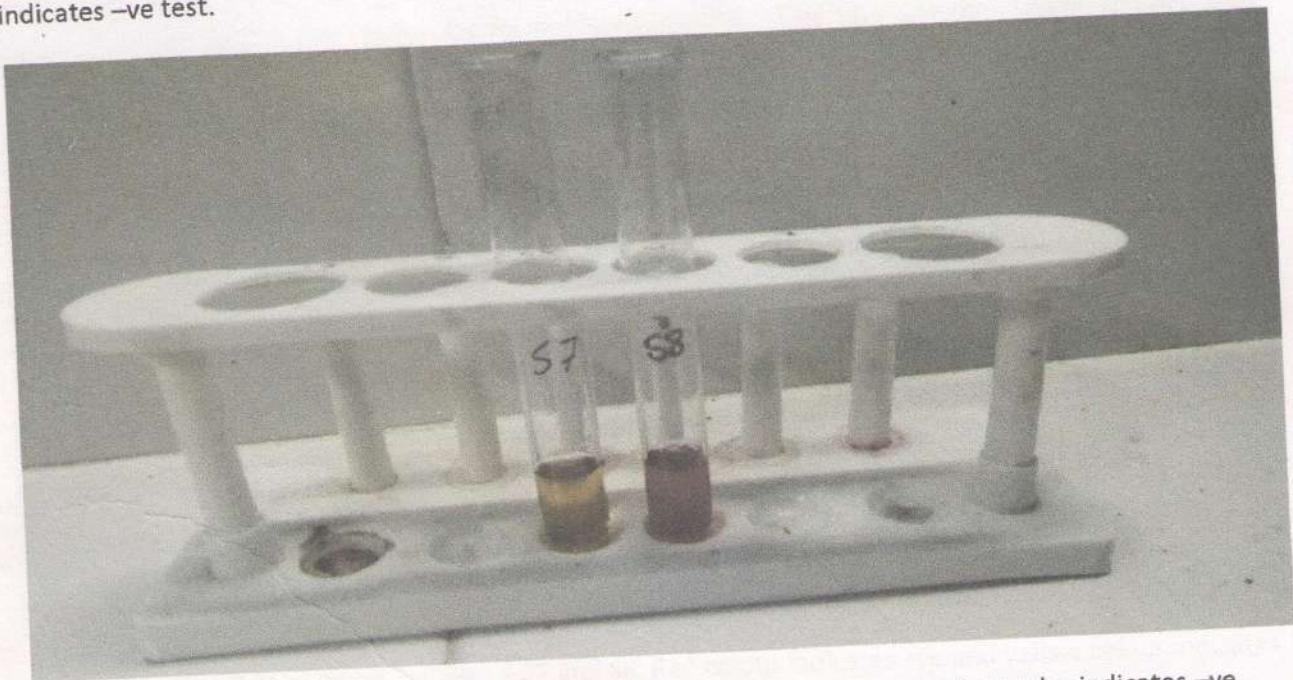
Water Sample 9 showing neither acid nor gas formation in lactose broth medium.



Water Sample 8 showing acid and gas formation in lactose broth medium.



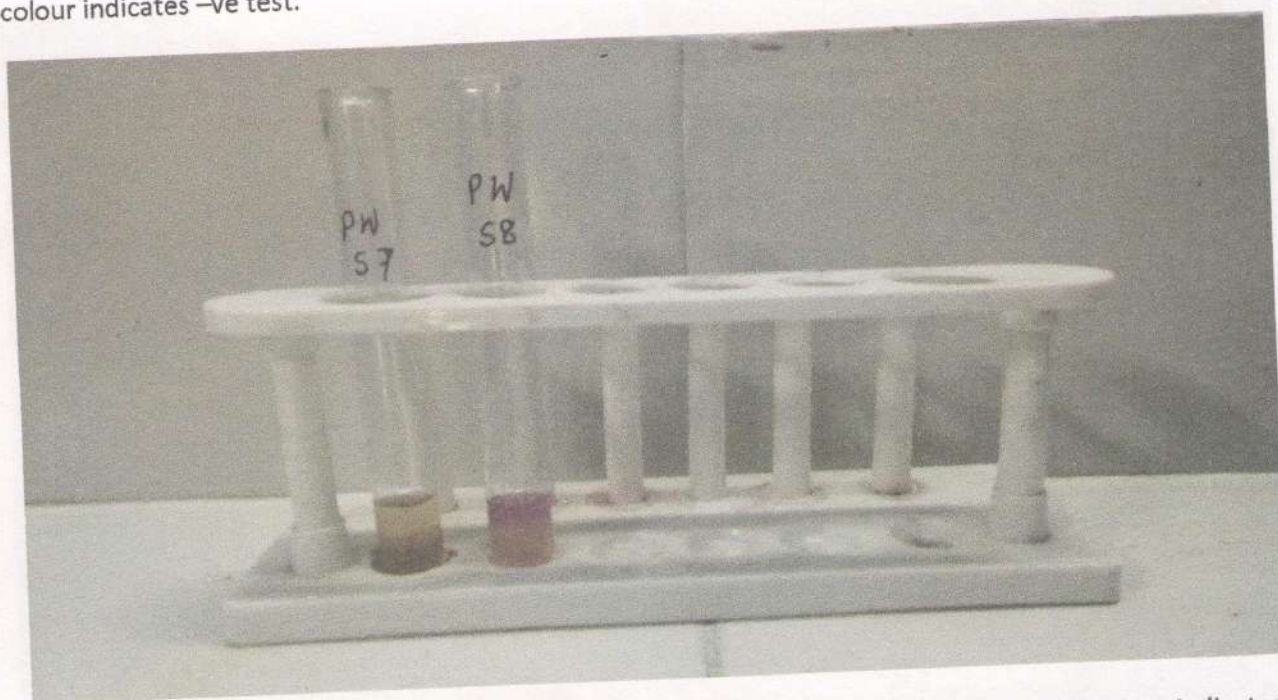
Methyl Red Test of water samples – S1, S2, S3, S4, S5, S6. Red colour indicate +ve and yellow color indicates –ve test.



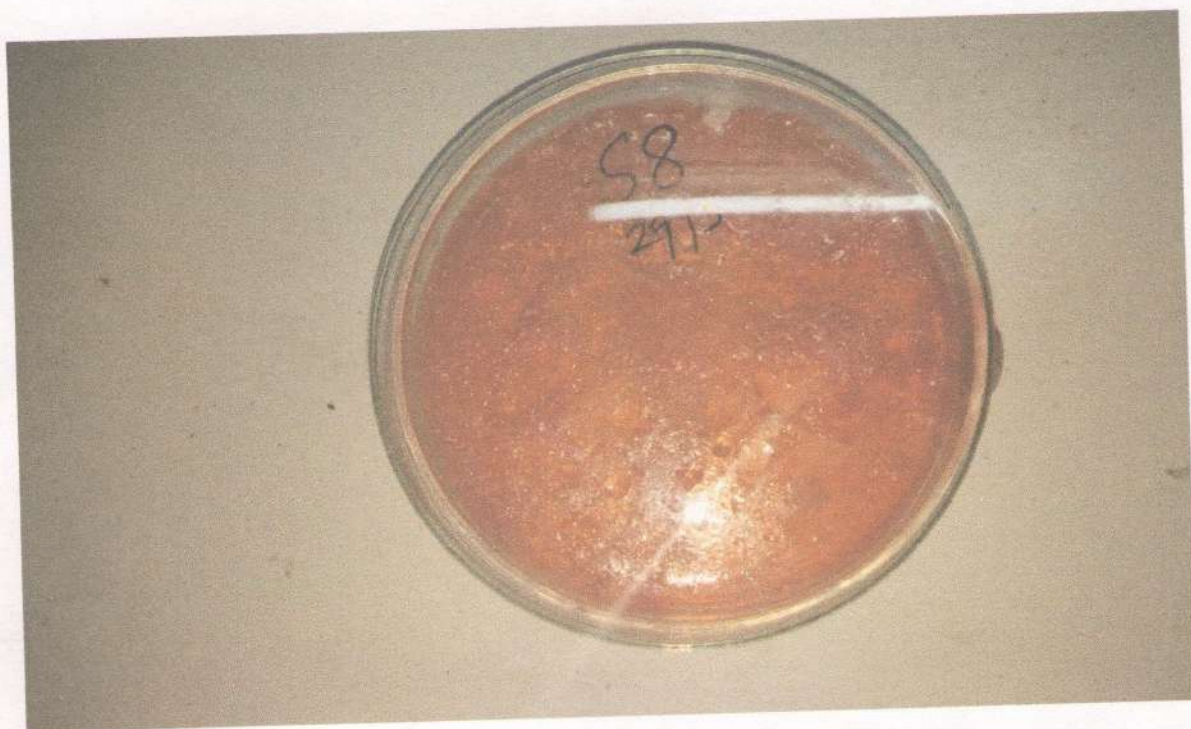
Methyl Red Test of water samples- S7 and S8. . Red colour indicate +ve and yellow color indicates –ve test.



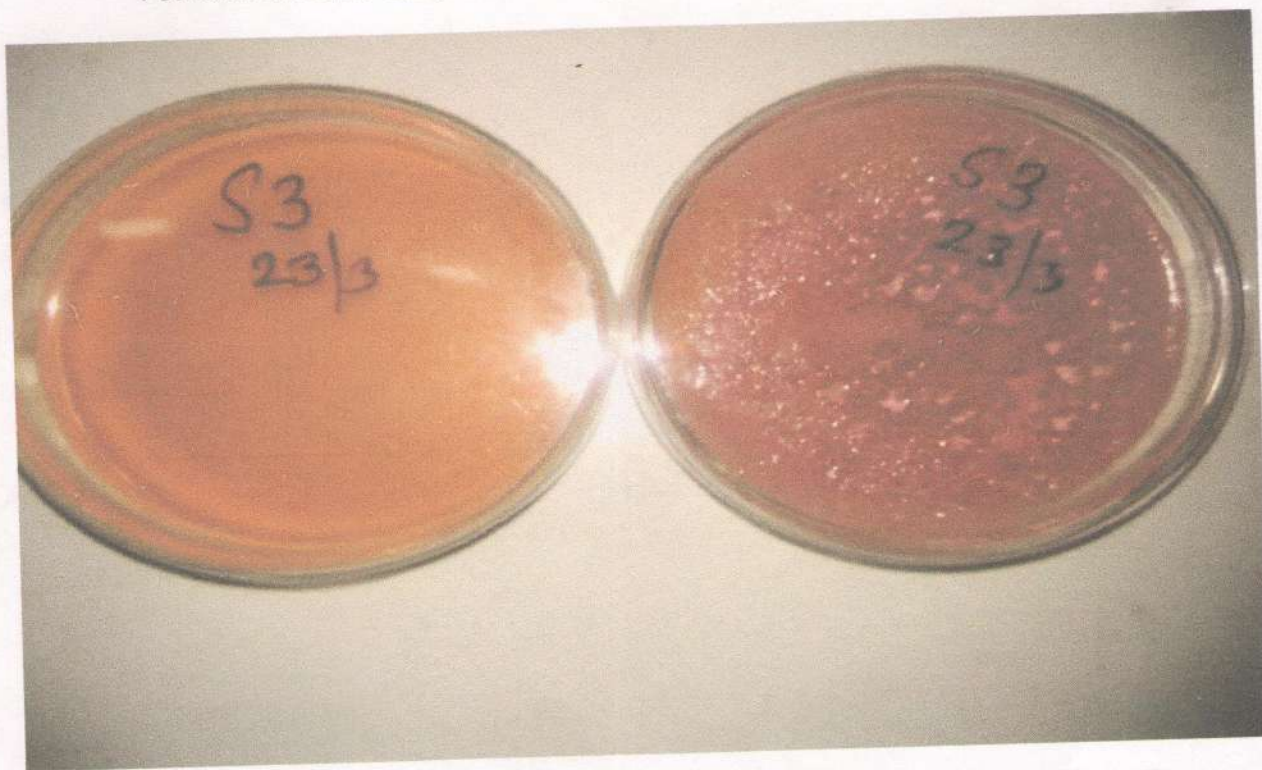
Indol Production Test of water samples – S1, S2, S3, S4, S5, S6. Red colour indicates +ve and yellow colour indicates –ve test.



Indol Production Test of water samples – S7 and S8. Red colour indicates +ve and yellow colour indicates –ve test.



Petridish of Water Sample 8 showing growth of microbes in EMB medium.



Petridish of Water Sample 8 showing growth of microbes in EMB medium