

**CERTIFICATE OF THE HOD OF THE DEPARTMENT
CERTIFICATE BY THE SUPERVISOR
DECLARATION
ABSTRACT**

**INTRODUCTION
REVIEW OF LITERATURE
MATERIALS AND METHODS
RESULTS
DISCUSSION
CONCLUSION
REFERENCE**

Title	Page no.
1.Introduction	1-10
2. Review of Literature	11-15
3. Objectives	16
4. Materials and Methods	17-30
5. Results	31-45
6. Discussion	46
7. Conclusion	47
8. Reference	48-53

FIGURE INDEX

	Figure	Page No.
Fig.1	Territory size shows the proportion of worldwide tuberculosis cases found there	2
Fig.2	Showing symptoms of pulmonary tuberculosis	3
Fig.3	Showing affected part of body by tuberculosis	4
Fig.4	Gram(-) bacterial cell wall	4
Fig.5	Gram(+) bacterial cell wall	4
Fig.6	<i>Mycobacterium Tuberculosis</i> Cell wall	5
Fig.7	Granuloma formed in lung tissue	6
Fig.8	Chemical structures of the first-line anti-TB drugs	8
Fig.9	List of Spices	19
Fig.10	Scientific classifications of spices used	20-22
Fig.11	Well diffusion assay of extracts	33

Fig.12	MIC in 96 well plate	34
Fig.13	Showing picture of Zn Acid fast staining of <i>M. smegmatis</i>	34
Fig.14	Scanning Electron Micrograph of different plant extract	36
Fig .15	Gel image of Effect on <i>M.smegmatis</i> DNA	37
Fig.16	Trypane blue staned PBMC	42
Fig.17	TLC showing different spots present in different extract	44
Fig. 18	FT- IR spectrum of methanol fraction	45
Fig 19	Raw material and MCC	45
Fig 20	FT- IR spectrum of MCC	46

GRAPH INDEX

	Graph	Page No.
1.1	Tuberculosis cases per 100,000 people (2003)	2
4.4.1	Growth curve of <i>Mycobacterium smegmatis</i> with and without extract	35
4.7.1.	Gallic acid equivalent of plant extract	38
4.8.1	Plant extract equivalent to quercetin	39
4.9.1.	I% inhibition of plant extract with reference to Ascorbic acid as standard	40
4.10.1	Haematological indices at different concentration	41
4.11.1	Absorbance of MTT treated cells at 540 nm	43