

بسم الله الرحمن الرحيم

# **Sudan University of Science and Technology**

## **College of Graduate Studies and Scientific Research**

# Comparison between D29 Phage Method, rpoB Gene and Proportion Method for the Detection of Multi Drug Resistant *Mycobacterium tuberculosis* in Kassala State

ପାତାରେ ପାତାରେ

ପାତାରେ ପାତାରେ ପାତାରେ ପାତାରେ ପାତାରେ ପାତାରେ ପାତାରେ ପାତାରେ ପାତାରେ ପାତାରେ ପାତାରେ

A Thesis Submitted in Fulfillment of the Requirement for the Degree of  
M.Sc. in Medical Laboratory Science (Microbiology)

By

Ahmed Abdulla Abdul-Aziz Ahmed

# B.Sc. In Medical Laboratory Science, Sudan University of Science and Technology 2007

## Supervisor

Dr. Mogahid Mohammed Elhassan

## Co-Supervisor

Dr. Mohamed E. Hamid

April 2012

# **Chapter One**

## **Introduction and Objectives**

# **Chapter Two**

## **Literature Review**

# **Chapter Three**

## **Material and Method**

# **Chapter Four**

## **Results**

# **Chapter Five**

## **Discussion**

# **Chapter Six**

## **Conclusion and Recommendations**

# References

# Appendices