

بسم الله الرحمن الرحيم

Sudan University of Science and Technology
College of Graduate Studies

**Detection of *Klebsiella Pneumoniae* in Sputum Specimens by
Real- time Polymerase Chain Reaction Technique**

الكشف عن الكلبسيللة النزليه في عينات الرشح بد قنية تفاعل البلمرة المتسلسلة الزمنية

**A dissertation Submitted in Partial Fulfillment for the Requirement of
M.Sc. in Medical Laboratory (Microbiology)**

By

Nasr Mohamed Nasr

Supervisor

Dr. Humodi Ahmed Saeed

2008