

**Sudan University of Science and Technology  
College of Graduate Studies**

**Development Of ZN Staining Method By Using  
Available Liquid Organic Cleaners Instead Of Phenol  
For Detection Of Tubercle Bacilli**

**تطوير طريقة لصبغة الزيل نلسون باستخدام المنظفات العضوية  
السائلة عوضا عن الفينول للكشف عن عصويات السل**

**Thesis presented for partial fulfillment of requirement  
for master degree in Histopathology**

**By  
Hawra Mohamed Saeed Babkir  
,BSc In Medical Laboratory Sciences  
( College of Technological Sciences (2006**

**:Supervisor**

**Dr. Elwaleed Mohamed Elamin**

**Associate Professor**

**Faculty of medical laboratory sciences**

**Alzaeim Alazheri University**

**(June 2009)**