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#### Sudan University Of Science & Technology

College of Graduated Studies

# PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ACTIVITIES OF ROOT (BARK OF Capparis decidua(Tundb

Adissertation submitted in partial fulfillment of the requirement of the degree of M.Sc

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# الآية

صدق الله العظيم

## الخلاصة

 

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# **Dedication**

To My Mother

And My Father

To My brothers And My
Sisters

In these study on the roots bark of the plant *Capparis decidua*, which is used in the traditional medicine of sudan, where phytochemically screened and found to .contain alkaloids, flavonoids, tritrepene, and saponins

One of the alkaloids(compound 1) was isolated and purified by thin layer chromatography(TLC) on silica gel using the solvent system Chloroform: Methanol(5:1) .respectivilly, from the ethanolic extract

The chemical structure of this alkaloids was deduced on the basis of its IR, and UV techniques, it was found to be : alkaloid with the following name and structure

#### **Isocodonocarpine**

A tentative the general properties of lipids from hexanic extract on the basis of its IR, and UV techniques and then it was found to be a surface wax

The antimicrobial activity of the ethanolic extract and the isolated purified compound1 from the roots bark of Capparis decidua where evaluated against four types of bacteria, and tow types fungi, its found to be exhibited .strong and weak antimicrobial activity Whereas the water extract from the root bark of Capparis decidua was found to be non- antimicrobial activity .against all types of bacteria, and fungi