



* (قال لا تؤاخذني بما نسيت ولا ترهقني من أمري عسرا)

سورة الكهف 73

صدق الله العظيم

Dedication

Dedicated to:

My family.....

My friends.....

Acknowledgment

I would like to express my thanks to Almighty ALLAH for the strength, inspiration and encouragement given to me throughout the completion of this thesis without any obstacles. A lot of experience and knowledge were gained along the way.

I would like to thank professor Mohammed Abdel karim Mohammed Fadul for giving me an opportunity to work in this research , it is amazing how you always find time to help your students whatever the problem or question

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Abstract

A successive silica gel column chromatography followed by further purification via thin layer chromatography allowed for the isolation of two components – compounds I and II from *Vangueria madagascariensis*. Identification of these compounds was based on extensive UV shifting reagents, IR, ¹HNMR and mass spectroscopy data. Compound I is a substituted flavonol, while compound II is a substituted flavanone.

In well diffusion method, the chloroform fraction of *Vangueria madagascariensis*, and compound II were evaluated for their antimicrobial activity.

The chloroform fraction of *Vangueria madagascariensis* did not show antibacterial activity, but it showed significant inhibitory activity against the fungi: *Candida albicans* and *Aspergillus niger*. Compound II also showed antifungal activity.

المستخلص

استخلصت ثمار نبات الكركر بالايثانول واخضع المستخلص الكحولي لكروماتوغرافيا العمود والطبقة الرقيقة حيث تم فصل مركبين - مركب I ومركب II.

وتم تحديد التركيب بعدد من المطيافيات (طيف الاشعه فوق البنفسجيه، طيف الاشعه تحت الحمراء , طيف الرنين النووي المغناطيسي وطيف الكتله واتضح ان المركب I هو فلافانول اما المركب II فهو فلافانول.

مستخلص الكلوروفرم لم يبدي فعاليه ضد البكتريا . لكنه اظهر فعاليه ضد الفطريات *Candida albicans* and *Aspergillus niger* اما مركب II فقد ابدي فعاليه ضد الفطريات. ولكنه لم يكن فعالا ضد البكتريا.

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