

## الآية

قال تعالى :

وَ قُلْ اَعْمَلُوا فِى سَبِيْلِ اللّٰهِ عَمَّ لِمَ كُورِ سُوْلِهِ وَّ الْمُؤْمِنُوْنَ وَ سَتَرْدُوْنَ  
الى عالم الغيب والشهادة فينبئكم بما كنتم تعملون)

صدق الله العظيم

سورة التوبة الآية {105}

**DEDICATION**

**To my:**

**Parents**

**Brothers**

**Sisters**

## **Acknowledgment**

My praise and thanks to Allah the gracious, the most merciful, who gave me the strength to conduct such work

I would like to express my kind regards to my family and any friends for their help and encouragement.

I would like to express my gratitude to my supervisor Prof. Mohamad Abdalkarim for his careful supervision, valuable advices and kindness

Also I would like to thank Dr. Ekram, from Khartoum university for her tremendous help.

Thanks are also to all those who helped and encouraged me to do this work

## **ABSTRACT**

The flavonoids of the leaves of the tephrosiaapollinea. Investigated extraction of the leaves with 95% ethanol gave acurde

The curde fractionated over silica gel with butanol 4%,acetic acid 1.5% ,and water 6%, in this way compound( A ) was isolated from tephrosiaapollinea .

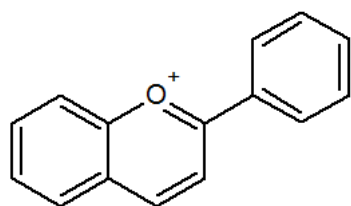
The IR spectrum gave the expecteg functional group of the compound (A)

## الخلاصة

لقد درست فلافونيدات اوراق نبات تور فريد وتم الحصول علي ناتج خام عند استخلاص الاوراق ب 95% من الايثانول , اختبارات الكشف الكيميائي بينت وجود الفلافونيدات .

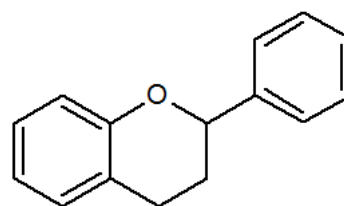
عند تنقية الخام بواسطة كروماتوغرافيا الطبقة الرقيقة تم فصل المركب ( A ) من اوراق نبات تور فريد بواسطة البيوتانول وحمض الخليك والماء بنسبة (6:1.5:4) كمذيب .

اوضح طيف الاشعة تحت الحمراء وجود الزمرة الوظيفية المتوقعة , وقد اقترح للمركب (A) التركيب التالي بناءً علي البيانات الطيفية



anthocyanine

or



flavan

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