Dedication

To the soul of my father .
To my lovely mother .
To my dear brothers and sisters .

Acknowledgment

My praise and thanks to Allah the most Gracious ,the most Merciful ,who gave me the strength to conduct such work .

I would like to express my gratitude to my supervisor professor Mohamed Abdel Kharim for his careful supervision , valuable advices and kindness .

Thanks are extended to my co-supervisor ,Dr. Dafalla Hag Ali for his tremendous help.

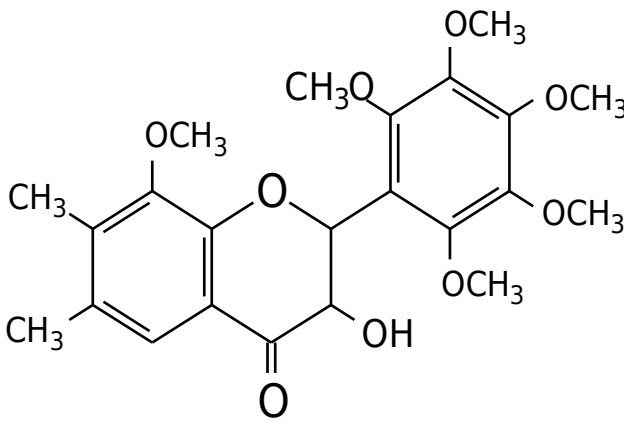
My sincere appreciation is due to my dear sister Bab Elsalam for her encouragement and support .

Thanks for my dear Awad Elkharim . for his help.

Thanksare also due to all those who helped and encouragement me to do this work .

Abstract

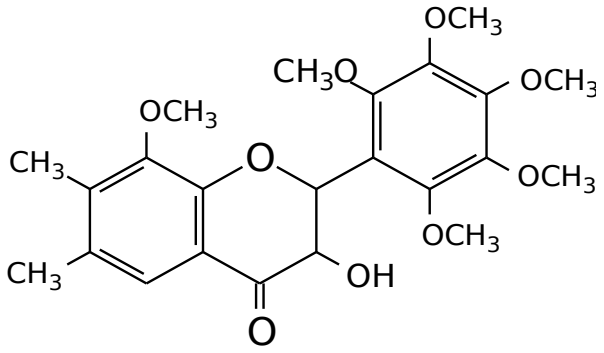
The flavonoids of the leaves of *PsidiumGuajava*was investigated .Extraction of the leaves with 95% ethanol gave a crude .Phytochemical screening revealed the presence of flavonoids , steroids and the absence of alkaloids . The crude was fractionated over silica gel with acetic acid 30% only a single flavonoid was detected on UV light .The structure of the flavonoid was elucidated on basis of its spectral data and the following tentative structure was proposed .



Both of pure flavonoid and the crude extract of theleaves were subjected to antibacterial activity . The crude product was found to be potent aginst : *Echerichia coli*, *Staphylocousaureus* ,*Bacillus subtile* , *Sallomenatyphia* , *Aspergillusniger* , *Candidealbacan*. However the pure flavonoid showed weak antibacterial activity .

الخلاصة

لقد درست فلافونيدات أوراق الجوافه وتم الحصول على ناتج خام عند استخلاص الاوراق ب 95% من الايثانول اختبارات الكشف الكيميائي بينت وجود الفلافونيدات الاستريدات وعدم وجود القلويات. عند تنقية الخام, بالسيليكاجل التي استخدم فيها 30% من حمض الخليك اتضح وجود فلافونيد واحد تحت الضوء فوق البنفسجي .وقد اقترح التركيب التالي بناء علي البيانات الطيفية .



كل من نقي الفلافونيد والخام المستخلص اخضع لاختبار مقاومة النشاط البكتيري , حيث اظهر الخام المستخلص مقاومه لبعض أنواع البكتريا والفطريات . بينما اظهر نقي الفلافونيد مقاومه ضعيفه للنشاط البكتيري .

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