

قال تعالى :

(وَإِذْ قُلْتُمْ يُمُوسَىٰ لَنْ نَّصْبِرَ عَلَىٰ طَعَامٍ وَحِدٍ فَادْعُ لَنَا رَبَّكَ يُخْرِجْ لَنَا مِمَّا تُنْبِتُ الْأَرْضُ مِنْ بَقْلِهَا وَقِثَّائِهَا
وَفُومِهَا وَعَدَسِهَا وَبَصِلَهَا ۗ قَالَ أَتَسْتَبْدِلُونَ الَّذِي هُوَ أَدْنَىٰ بِالَّذِي هُوَ خَيْرٌ ۗ اهْبِطُوا مِصْرًا فَإِنَّ لَكُمْ مَّا سَأَلْتُمْ
وَضُرِبَتْ عَلَيْهِمُ الذِّلَّةُ وَالْمَسْكَنَةُ وَبَاءُوا بِغَضَبٍ مِّنَ اللَّهِ ۗ ذَٰلِكَ بِأَنَّهُمْ كَانُوا يَكْفُرُونَ بِآيَاتِ اللَّهِ وَيَقْتُلُونَ النَّبِيِّنَ
بِغَيْرِ الْحَقِّ ۗ ذَٰلِكَ بِمَا عَصَوْا وَكَانُوا يَعْتَدُونَ)

[سورة البقرة الآية: (61)]

صدق الله العظيم

Dedication

To,

My parents,

husband, children

and brothers.

Acknowledgement

I would like to thank **Almighty Allah** for giving me strength to complete this work.

I would like to express my gratitude to my supervisor Prof. Mohamed Abdel Karim for his careful supervision, valuable advice, kind treatment and effort during this work.

I would like to express my gratitude to all those who helped me during this work, also I would like to express my heartfull gratitude to my family.

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Abstract

Brassica hirta oil was analyzed by GC-MS. Identification of the constituents was accomplished by consulting the MS library (NIST) and also by matching retention times with the database of the GC-MS library. Twenty nine components have been detected by GC-MS analysis. The oil was assessed for its antimicrobial potential via the cup plate agar diffusion bioassay. *Brassica hirta* oil exhibited weak anticandidal activity.

Major constituents of the oil are: 9-octadecenoic acid (Z)-,3-[(1-oxooctadecyloxy)propyl ester (16.81%); 9-octadecenoic acid, 1,2,3-propanetriyl ester (15.45)%.

المستخلص

فى هذه الدراسة تم استخلاص زيت الخردل الاصفر ثم حددت مكونات الزيت بتقنية الكروماتوغرافيا الغازية - طيف الكتلة. وذلك بمضاهة زمن الاستبقاء ببيانات مكتبه الجهاز وايضا بتفسير طيف الكتلة. واتضح ان الزيت به تسعة وعشرون مركبا. ايضا اخضع الزيت لاختبار مضاد الميكروبات حيث اعطى فعالية ضعيفة ضد فطر كانديدا.

المكونات الرئيسية للزيت هى :

9-octadecenoic acid (Z)-,3-[(1-oxooctadacy)oxy]propyl ester (16.81%);9-octadecenoic acid,1,2,3-propanetriyl -ester(15.45)%.

