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OPEN PEER REVIEW

Gas Chromatography Mass Spectrometry Analysis, Antioxidant and Antimicrobial Activities of Aerial Part Extracts of *Cachrys scabra* (Fenzl) Meikle

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SUBMITTED	REVISED	ACCEPTED	DOI
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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

3 comments · 1 Mar 2025 – 1 Mar 2025

Referee 1 Reviewer

MAJOR REVISION 1 Mar 2025

The article entitled Gas Chromatography Mass Spectrometry Analysis, Antioxidant and Antimicrobial Activities of Aerial Part Extracts of Cachrys scabra (Fenzl) Meikle is recommended for publication after the following major revisions:
1- The text should be grammatically corrected.
2- In the phytochemical analysis of the extracts, the amounts of total phenol and flavonoid should also be investigated. These analyses are considered necessary for the acceptance of the manuscript.
3—The authors have only studied one method for measuring antioxidant activities. In fact, the study of DPPH inhibition is related to the scavenging of free radicals, and another method should be used in addition to it to study antioxidant activity.
4- The discussion section was devoid of any text.
5-The geographical characteristics of the plant collection location (especially its elevation) should be given in the relevant section.

Associate Editor

MAJOR REVISION 1 Mar 2025

Dear Authors,

We hope this email finds you well. We have received feedback from the reviewers regarding your manuscript entitled "Gas Chromatography Mass Spectrometry Analysis, Antioxidant and Antimicrobial Activities of Aerial Part Extracts of Cachrys scabra (Fenzl) Meikle" submitted to the Journal of Reports in Pharmaceutical Sciences. The reviewers have recommended major revisions before the manuscript can be reconsidered for publication.

We kindly request that you address each reviewer's comments point-by-point in your revised manuscript. Additionally, please provide a detailed response to each comment, highlighting the changes made. This will facilitate a clear and efficient review process.

Should you have any questions or need further clarification, feel free to reach out to us.

We appreciate your cooperation and look forward to receiving your revised manuscript.

Best regards,

Editorial Team Journal of Reports in Pharmaceutical Sciences

Editor-in-Chief

MAJOR REVISION 1 Mar 2025

Dear Authors,

We hope this email finds you well. We have received feedback from the reviewers regarding your manuscript entitled "Gas Chromatography Mass Spectrometry Analysis, Antioxidant and Antimicrobial Activities of Aerial Part Extracts of Cachrys scabra (Fenzl) Meikle" submitted to the Journal of Reports in Pharmaceutical

Sciences. The reviewers have recommended major revisions before the manuscript can be reconsidered for publication.

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We appreciate your cooperation and look forward to receiving your revised manuscript.

Best regards,

Editorial Team Journal of Reports in Pharmaceutical Sciences

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Reviewer 1:

- *Include the geographic location where the samples were collected and provide corresponding photos to illustrate the studied species.*

Halgurd mountain locates in the north east of the Erbil Province area by a distance of 96.0km from the city center of Erbil. The longitude, latitude and altitude of the studied locations are 44:52.19472E, 36:42.60247N and 2268m, respectively, where measured by using the global positioning system (GARMIN/GPS 72). These tools have the ability to connect with the satellites in order to determine the location and the altitude above the sea level.







- *Review the text structure and standardize the units.*

Done

- *The references are outdated and should be updated.*

Since the studied plant has been little studied worldwide, we had to use all available references.

- *Specify the solvent used after the evaporation of the extract.*

It has been stated in the last sentence of (Preparation of plant extract) section:

Line 76: The solution was vacuum filtered through ……...

- *Include the chromatograms.*

Done

- *Present the results in comparison with those published in the literature.*

It has been stated in "Results and discussion" section, for instance:

- Line 172: Nonetheless, although saponins and tannins were not found in …….
- Line 182: Interestingly, the percentage of hydrocarbons (<19%) was very low compared to terpenoids. These results are consistent with the ……
- Line 231: Correspondingly, the antioxidant activity of this genus demonstrated that ……

Reviewer 2:

1- The text should be grammatically corrected

Done

2- In the phytochemical analysis of the extracts, the amount of total phenol and flavonoid should also be investigated. These analyses are considered necessary for the acceptance of the manuscript.

In our study, the total phenol and flavonoid tests have been carried out and presented in Table (1). Also, we focused only on the qualitative phytochemical constituents of the plant extract.

3- *The authors have only studied one method for measuring antioxidant activities. In fact, the study of DPPH inhibition is related to the scavenging of free radicals, and another*

method should be studied in addition to it for the study of antioxidant activity.

in our study, we only focused on the plant's ability to scavenging and/or reduce free radicals, which are one of the main causes of cancer.

4- The discussion section was devoid of any text.

We have combined the Results section with the Discussion so that we can better present the results and make the concepts of the results more accessible to the reader.

5- The geographical characteristics of the plant collection location (especially region height) should be given in the relevant section.

Done: Halgurd mountain locates in the north east of the Erbil Province area by a distance of 96.0km from the city center of Erbil. The longitude, latitude and altitude of the studied locations are 44:52.19472E, 36:42.60247N and 2268m, respectively, where measured by using the global positioning system (GARMIN/GPS 72).


Hatgurdumountain
J&A

2 Revision 1

2 comments · 21 Apr 2025 – 21 Apr 2025

Associate Editor

MAJOR REVISION 21 Apr 2025

Dear Author (s)
The manuscript needs minor revision.
Best regards,
EIC

Editor-in-Chief

MINOR REVISION 21 Apr 2025

Dear Author (s)
The manuscript needs minor revision.
Best regards,
EIC

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Revision 2

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Reviewer 1:

- *Throughout the text, the scientific name of the plant (genus and species) should be written in italics.*

Done.

- *In the keywords, EO should be changed to Essential Oil.*

Done.

3 Revision 2

2 comments · 22 Apr 2025 – 22 Apr 2025

Associate Editor

ACCEPT 22 Apr 2025

Dear Authors,
The manuscript was accepted.
Best regards,
EIC

Editor-in-Chief

ACCEPT 22 Apr 2025

Dear Authors
The manuscript was accepted.
Best regards,
EIC