

Review Form 3

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| Journal Name: | International Research Journal of Pure and Applied Chemistry |
| Manuscript Number: | Ms_IRJPAC_126416 |
| Title of the Manuscript: | Identification of Compounds by HPLC-ESI- Q-TOF -MS/ MS Analysis of the Ethyl Acetate fraction of Hyptis suaveolens leaves before Essential Oil extraction |
| Type of the Article | |

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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Important Policies Regarding Peer Review

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PART 1: Review Comments

| Compulsory REVISION comments | Reviewer's comment | Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part. | The manuscript will once again awaken the attention of scientists in the modern world to be interested in <i>Hyptis suaveolens</i> . The study reveals new phytochemicals compounds that will be used to do new research and therefore produce new products useful for humanity. <i>Hyptis suaveolens</i> will be a hope for pharmacological research. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | We think the title needs to be rephrase. We suggest: Identification of new compounds in the Ethyl Acetate fraction of <i>Hyptis suaveolens</i> leaves by HPLC-MS/MS | |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | The abstract needs to be redone. It should contain: introduction, aim, methods, results and conclusion. The abstract must not contain references. Numbers must be only in word or letters (examples: fifteen, nine, six, five). | |
| Are subsections and structure of the manuscript appropriate? | The subsections and structure of the manuscript are suitable but we suggest (in results and discussion): 3.2.1. Structure of compound 1 3.2.2. Structure of compound 2 3.2.3. Structure of compound 3 3.2.4. Structure of compound 4 And so on | |
| Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part. | The experimental approach is scientific. The methods used are clear. Results are well presented according to scientific recommendations. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | The references are sufficient but most are old. So, we suggest some recent references for the following sections of the manuscript: 1.Introduction | |

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| | <ul style="list-style-type: none"> ▲ Shah K, Sharma GP, Sagar R. An arrow in the quiver: evaluating the performance of <i>Hyptis suaveolens</i> (L.) Poit. in different light levels. <i>Ecological Processes</i>. 2024 Dec;13(1):1-8. ▲ Coelho AD, Mendonça SC, Assis RM, Rocha JP, Shukla MR, Saxena PK, Bertolucci SK, Pinto JE. Impact of phloroglucinol and indoleamines on growth and accumulation of podophyllotoxin in the roots of <i>Hyptis suaveolens</i> (L.) Poit. <i>Plant Cell, Tissue and Organ Culture (PCTOC)</i>. 2024 Sep;158(3):50. ▲ Oaikhena EE, Yahaya UA, Abdulsalami SM, Egbe NL, Adeyemi MM, Ungogo MA, Ebiloma GU, Zoiku FK, Fordjour PA, Elati HA, Quashie NB. The activities of suaveolol and other compounds from <i>Hyptis suaveolens</i> and <i>Momordica charantia</i> against the aetiological agents of African trypanosomiasis, leishmaniasis and malaria. <i>Experimental Parasitology</i>. 2024 Aug 1;263:108807. ▲ Dossa AF, Hotegni NV, N'Danikou S, Yayi-Ladekan E, Adjé CA, Lagnika L, Bokonon-Ganta AH, Achigan-Dako EG. Genetic diversity, essential oil's chemical constituents of aromatic plant <i>Mesosphaerum suaveolens</i> (L.) Kuntze Syn. <i>Hyptis suaveolens</i> (L.) Poit. and its uses in crop protection: a review. <i>Frontiers in Plant Science</i>. 2024;15. <p>2.2.1. Sample preparation Hydroethanolic extraction:</p> <ul style="list-style-type: none"> ▲ Dermane A, Kporvie AKG, Kindji KP, Metowogo K, Eklú-Gadegbeku K. Immunomodulatory and anti-inflammatory activities of hydro-ethanolic extract of <i>Securidaca longipedunculata</i> Fresen leaves. <i>J Herbmed Pharmacol</i>. 2024;13(2):280-288. doi: 10.34172/jhp.2024.49352. <p>HPLC methods:</p> <ul style="list-style-type: none"> ▲ Wang C, Liu H, Sun R, Wang J. Determination of glycidyl fatty acid esters in edible vegetable oils by HPLC-ESI-QQQ-MS/MS combined with cryo-degreasing tandem dispersive solid-phase extraction. <i>Food Chemistry</i>. 2024 Jan 30;432:137293. ▲ Rivaró P, Vivado D, Ianni C, Salis A, Parodi A, Millo E. A New Approach to Characterize Siderophore-Type Ligands in Seawater by Solid Phase Synthesis and SPE-HPLC-ESI-MS/MS Analysis. <i>Journal of Marine Science and Engineering</i>. 2024 Jan 6;12(1):110 | |
| <p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <p>The English language is acceptable. Some words are in French (example: kaempférol in table 3), space between words and colon must be removed.</p> | |
| <p>Optional/General comments</p> | <p>Some figures are blurred. The need to be improved. Vancouver style must be used for references.</p> <p>The manuscript is recommended for publication.</p> | |

PART 2:

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| <p>Are there ethical issues in this manuscript?</p> | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> | |

Reviewer Details:

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| Department, University & Country | University of Lomé, Togo |