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Book Name:	<a href="#">Pharmaceutical Research: Recent Advances and Trends</a>
Manuscript Number:	Ms_BPR_2870
Title of the Manuscript:	GC-MS in Quantification and Characterization of Phytoconstituents of Herbal extracts- A Review
Type of the Article	Book chapter

**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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 article gives the significant importance to the analysis of phytoconstituents by GC-MS and it has substantial impact on the journal. It is recommended to accept but few changes have been recommended.	
Is the title of the article suitable? (If not please suggest an alternative title)	Please change the title as following "A Review of GC-MS Techniques for Quantifying and Characterizing Phytoconstituents in Herbal Extracts" If any better suitable title has been decided by authors' please do.	
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 provides a solid overview of the use of <b>Gas Chromatography-Mass Spectrometry (GC-MS)</b> for the <b>analysis, separation, and identification</b> of compounds, particularly in the context of <b>phytoconstituents</b> and <b>volatile oils</b> . However, it could be improved in terms of structure, clarity, and focus. Here are some suggestions:  <ol style="list-style-type: none"> <li><b>Lack of Focus on Phytoconstituents:</b> Since the manuscript focuses on <b>phytochemicals</b>, the abstract should highlight this more prominently. Mentioning specific examples of the phytoconstituents or compounds analyzed using GC-MS will provide more focus.</li> <li><b>Repetitiveness:</b> The abstract contains redundant information (e.g., introduction of the sample into the column is explained twice). Streamlining this could help.</li> <li><b>Specific GC-MS Methods:</b> The abstract mentions that different GC-MS methods are discussed but does not specify or summarize any of these methods, which makes it vague. Providing a brief mention of key methods or techniques could improve its clarity.</li> <li><b>Clarity on Results/Findings:</b> The abstract does not mention any key findings or conclusions drawn from the analysis. While it is an overview, briefly summarizing the major insights from the review would make it more comprehensive.</li> </ol>	
Are subsections and structure of the manuscript appropriate?	<b>Introduction Section:</b> It could benefit from a clearer structure that first introduces phytoconstituents and their importance, followed by why GC-MS is a preferred method for their analysis.  <b>Paragraph Coherence:</b> Some sections are quite dense, with information packed into long paragraphs. Consider breaking these into shorter, more digestible sections. For example, the explanation of <b>ionization methods</b> could be broken down into multiple subsections, each dedicated to a specific technique.	
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	Comprehensive Review of GC-MS Techniques: The manuscript provides an extensive review of Gas Chromatography-Mass Spectrometry (GC-MS) applications in the quantification and characterization of phytochemicals in herbal extracts. It thoroughly explains key processes, such as the separation,	

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<p><b>sentences may be required for this part.</b></p>	<p>identification, and quantification of volatile compounds, making it a valuable reference for researchers.</p> <p>Well-Structured Methodology: It covers various ionization techniques, methods, and analytical parameters for GC-MS, which are essential for accurate phytochemical analysis. This demonstrates a sound understanding of the technical complexities involved in phytoconstituent analysis.</p> <p>Evidence of Broad Applicability: The manuscript draws on various studies and examples where GC-MS is employed in drug detection, food safety, environmental pollutants analysis, and phytopharmaceuticals, underscoring the versatility of the technique across different fields</p> <p>Critical Analysis of Ionization Techniques: The section on mass spectrometry ionization methods evaluates different techniques with respect to their principles, advantages, disadvantages, and applications, which adds depth and ensures that the manuscript is scientifically rigorous.</p> <p>The manuscript is scientifically accurate and grounded in well-established principles, making it technically sound for the audience it targets.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p> <p>:</p>	<p><b>Reference and Citation:</b> Ensure that all references to data and methods are properly cited using a consistent format. At certain points, general statements about the methodology could benefit from specific citations to back them up.</p>	
<p><u>Minor</u> REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The authors are recommended to maintain the consistency in Formatting such as the spacing between words, especially after punctuation. For example, "Gas Chromatography Mass Spectrometry(GC-MS)" should have a space after "Spectrometry".</p> <p>The tense used throughout the document shifts between present and past. It's better to maintain a consistent tense, preferably present tense for general statements of fact. For instance:"The sample is introduced into the column..." (consistent with describing the method).</p> <p>Ensure articles (a, an, the) are used properly. Example: "The vaporized sample is introduced into the gaseous phase..." instead of "vaporized sample introduced into gaseous phase".</p> <p>The document uses many technical terms. Ensure that acronyms like GC-MS/MS, MALDI, APCI, etc., are defined upon first usage and consistently used thereafter.</p>	
<p><u>Optional/General</u>comments</p>		

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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