

Review Form 3

Journal Name:	European Journal of Medicinal Plants
Manuscript Number:	Ms_EJMP_125815
Title of the Manuscript:	Innovation of BioCurcuminoids and its Pharmacokinetic Study of CurcuminAura™ with regular curcuminoids
Type of the Article	

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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)
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.	<p>The abstract contains overly lengthy and complex language that may obfuscate the intended message. The statement “Despite its long history and well-tolerated properties, curcumin has arguably not fully realized its therapeutic potential in the prevention and treatment of human disease” might be streamlined for enhanced clarity.</p> <p>The initial paragraph addresses the deficiencies of curcumin broadly, yet fails to concentrate on the subject at hand from the outset. This section might have benefited from providing context regarding the primary issue the study aimed to address: curcumin bioavailability.</p> <p>The methodology section contains excessive detail regarding blood sample collection, including specifics such as the usage of EDTA, storage temperature, and time periods, which is inappropriate for the abstract. This section could be streamlined to enhance conciseness and reduce technicality, hence allocating more emphasis on the principal results and conclusions.</p> <p>Insufficient Elucidation of Significance: While the data indicate a notable enhancement in bioavailability, the abstract fails to adequately articulate the clinical or practical implications of these findings. The implications of enhanced bioavailability on the clinical application of curcumin and its advantages for the general consumer remain little elucidated.</p> <p>Redundant Sentences: Certain details appear redundant, particularly regarding the enhanced bioavailability of CurcuminAura™. This explanation could be rendered more succinctly to eliminate superfluous repetition.</p> <p>Proposed Enhancements:</p> <p>Utilize straightforward and concise language to elucidate the issue and aims of the research. For instance, assertions on curcumin's efficacy may be more direct.</p> <p>Concise Methodology: Excessively detailed technical specifications (e.g., storage temperature or anesthetic kind) should be relocated to a comprehensive methodology section inside the article, whilst the abstract should emphasize the aims, succinct techniques, principal results, and conclusions.</p> <p>Highlight the Importance of the Study: The abstract should provide further details regarding the potential implications of the study's results on the medical field or the broader community, thereby clarifying its contribution.</p> <p>This abstract is sufficiently informative; nonetheless, it requires enhancement by simplifying the language, sharpening its emphasis, and highlighting the most significant and pertinent results.</p>	
Is the title of the article suitable? (If not please suggest an alternative title)	<p>The article's title must explicitly convey the study's objective, its subject matter, and the outcomes attained, as indicated in the abstract. The study still lacks a title; however, based on the abstract, the optimal title should encompass the following key elements: enhancing curcumin bioavailability, the incorporation of lecithin in the formulation, and pharmacokinetic analysis.</p> <p>If the existing title inadequately addresses these problems, below are many alternative titles that more accurately reflect the substance of the abstract:</p>	

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	<div>1. Improvement of Curcumin Bioavailability via CurcuminAura™ Formulation with Sunflower Lecithin: A Comparative Pharmacokinetic Study in Rats</div> <div>2. Comparative Analysis of Bioavailability and Pharmacokinetics of CurcuminAura™ vs Standard Curcumin in Sprague Dawley Rats</div> <div>3. Utilization of Lecithin to Augment Curcumin Bioavailability: Pharmacokinetic Investigation of CurcuminAura™ in Rodents</div> <div>4. Pharmacokinetic Evaluation of Sunflower Lecithin Formulation in CurcuminAura™ to Enhance Curcumin Bioavailability in Rats</div>	
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<p>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.</p>	<p>The abstract provided is thorough in detailing the study's objective, methodologies employed, and outcomes achieved. Nonetheless, certain elements may be enhanced to facilitate comprehension and augment readability. Here are recommendations for the addition or elimination of certain points:</p> <p>1. Introduction to the Issue Suggested Enhancement: Elucidate the significance of curcumin in the medical or therapeutic realm. While it is asserted that curcumin has not yet achieved its medicinal potential, the abstract could elucidate what these potentials entail, including anti-inflammatory, antioxidant, or anticancer benefits. This would elucidate the significance of enhancing bioavailability.</p> <p>Curcumin is recognized for its potential antioxidant, anti-inflammatory, and anticancer properties; nevertheless, its limited bioavailability has hindered its widespread application.</p> <p>2. Enhanced Targeted Objective</p> <p>Proposed Revision: While the study's objective is explicitly articulated, its presentation may benefit from more focus. The abstract currently mentions "to increase the bioavailability and absorption of curcumin," however it may better stress the precise objective of the pharmacokinetic study done.</p> <p>This study sought to evaluate the bioavailability and pharmacokinetic characteristics of CurcuminAura™ made with sunflower lecithin, in comparison to the widely marketed 95% curcumin.</p> <p>3. Methodological Specifications</p> <p>Proposed Revision: The technique section is excessively extensive for the abstract, particularly regarding blood sample collection, the usage of EDTA, and storage temperature. These technical details have to be reserved for the comprehensive methodology portion of the article.</p> <p>Example Removal: "Following administration, blood samples were obtained from the retro-orbital sinus under isoflurane anesthesia at various time intervals..." The samples were preserved at -80°C.</p> <p>Blood samples were obtained at the specified time intervals for pharmacokinetic evaluation.</p> <p>4. Results Simplification</p> <p>The results' explanation should be more concise and streamlined. The abstract should emphasize the primary outcome, which was the enhanced bioavailability of CurcuminAura™ rather than delving into excessive technical specifics. The findings indicated that CurcuminAura™ has 3.8 times more bioavailability than 95% curcumin, with peak absorption occurring within 3 hours post-oral dosing.</p> <p>5. Conclusion</p> <p>The abstract lacks a closing section that emphasizes the study's ramifications. Summarize the implications of these findings in both scientific and practical contexts in one sentence.</p> <p>The enhancement in bioavailability indicates CurcuminAura™ may serve as a superior alternative in curcumin supplementation for disease prevention and therapy.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>		
<p>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.</p>		

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Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?		
Optional/General comments		

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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

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