



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_35180
Title of the Manuscript:	Differential quantification of the bioactive metastable thiosulfinates in garlic using a validated High Performance Liquid Chromatography method
Type of the Article	Original Research Article

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	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)
Compulsory REVISION comments	Comment 1: Part: Introduction Page: 1 Lines: 32-34. Paragraph: 1 Uncorrected: The antimicrobial efficacy and other healing properties displayed by <i>Allium sativum</i> (Garlic) are attributed to thiosulfinates, compounds which are formed through an enzymatic reaction that occur when garlic cloves are crushed (Mansor <i>et. al.</i>, 2016). Correction: In this paragraph author mention that the "antimicrobial efficacy and other healing properties displayed by <i>Allium sativum</i> (Garlic) are attributed to thiosulfinates", but it may be return to the existence of other bioactive secondary metabolites, so the author should be add the following section "as well as other bioactive secondary metabolites" Comment 2: Part: Introduction Page: 1 Lines: 34-37. Paragraph: 2 Uncorrected: These thiosulfinates are not naturally present in an intact garlic bulb, but it is the crushing of the bulb that triggers release of the enzyme alliinase required	Comment 1: The author totally agrees with the reviewer because antimicrobial properties of <i>Allium sativum</i> extracts are attributed to thiosulfinates like allicin and secondary bioactive metabolites like ajoene. Comment 2: The author made the corrections in agreement with the reviewer by removing the section from the Abstract and restructuring to avoid repetition.



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	for enzymatic reaction which produces thiosulfinates (Olech and Zaborska, 2012). Correction: This paragraph is mention in the abstract, try to rewrite it in a different way or remove it, to avoid the repetition. Comment 3: Part: Experimental (Sample collection, processing and extraction) Page: 3 Lines: 117 Paragraph: Equation (i) Uncorrected: Very low resolution (The equation is written in a very bad font). Correction: Try to rewrite it a good way. Comment 4: Part: Experimental (Differential quantification of the metastable bioactive thiosulfinates) Page: 5 Lines: 191 Paragraph: Equation (ii) Uncorrected: Very low resolution (The equation is written in a very bad font). Correction: Try to rewrite it a good way.	Comment 3: The equation (i) has been rewritten using equation editor to improve the resolution. Comment 4: The equation (ii) has been rewritten using equation editor and the font changed to Times New Roman 12
<u>Minor</u> REVISION comments	NO	
<u>Optional/General</u> comments	The work has been carried out correctly and there is nothing wrong with the results	Comment 5: All the topographical errors have been corrected by the author.