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## REVIEWER'S REPORT

Manuscript No.: IJAR-50366

Date: 21/2/2025

### Title:

**IN-VIVO AND IN-VITRO ANTI-INFLAMMATORY AND ANTI-ARTHRITIC ACTIVITY OF SYNTHETIC CIS-9 AND CIS-10 CETYL MYRISTOLEATE (CMO) ISOMERS IN MICE.**

### Recommendation:

Accept as it is .....  
 Accept after minor revision...  
 .....  
 Accept after major revision .....



Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality		Good		
Clarity	Excellent			
Significance	Excellent			

Reviewer Name: Dr.Sumathi

Date: 21/2/2025

### Reviewer's Comment for Publication.

*(To be published with the manuscript in the journal)*

*The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.*

Antiarthritic activity is the ability of a substance to relieve or prevent symptoms of arthritis, such as joint pain and stiffness. Antiarthritic drugs can be taken orally, topically or by injection.

### *Detailed Reviewer's Report*

- 1. Invivo anti-inflammatory research evaluates the effects of substances on inflammation in living organisms. This research can help identify potential treatments for inflammatory diseases.**
- 2. Invitro anti-inflammatory assays measure the ability of a substance to reduce inflammation in a test tube. These assays can help identify potential anti-inflammatory drugs and foods.**

**REVIEWER'S REPORT**

- 3. Cis-9 and cis-10 cetyl refers to the specific isomers of a fatty acid ester called cetyl myristoleate, where the double bond in the fatty acid chain is located at the 9<sup>th</sup> carbon position in the cis-10 isomer with cetyl indicating the fatty alcohol component attached to the fatty acid chain, which is cetyl alcohol.**
- 4. Ozonolysis is an organic reaction that breaks carbon-carbon double or triple bonds using ozone . It is a type of oxidative cleavage reaction.**
- 5. Osteoarthritis is a degenerative joint disease, in which the tissues in the joint break down over time. It is the most common type of arthritis and is more common in older people.**
- 6. Methyl myristoleate is a fatty acid methyl ester with the chemical formula C<sub>15</sub>H<sub>28</sub>O<sub>2</sub>. It is also known as methyl cis-9- tetradecenoate or myristoleic acid methyl ester.**
- 7. This research findings are medically valued and significant research.**
- 8. Has been done with invivo and invitro studies. Further can be explore with molecular level .**
- 9. Review of informations are good. Can be given flow charts of review points.**
- 10. References should be in alphabetical order.**
- 11. Summary parts must be included.**
- 12. Pictures, graphs are good and neat.**
- 13. After minor correction can be published in your journal.**