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| Journal Name: | [**Asian Journal of Research in Biochemistry**](https://journalajrb.com/index.php/AJRB) |
| Manuscript Number: | **Ms\_AJRB\_134669** |
| Title of the Manuscript: | **SYSTEMATIC EVALUATION OF SIGNS, SYMPTOMS, AND SEVERITY OF TARTRAZINE AND CARMOISINE AZO DYES ACUTE TOXICITY IN ALBINO RATS** |
| Type of the Article | **Original Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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. A minimum of 3-4 sentences may be required for this part.** | In the present study, the author has discussed very well about two different azo dyes used in food as colours. In the present study, he/she has put light on the arising of health issues for using excess amounts of the above azo dye. Author has also described in detail the Signs, Symptoms, and Severity of Tartrazine and Carmoisine Azo Dyes Acute Toxicity in Albino Rats with their kinetic and statistical studies. After some corrections, it is recommended to accept the paper. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| 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. | Abstract has a total of 369 words. It should be reduced. Remove the part ‘The LD100 of tartrazine administered ……32.5g/kg, 37.5g/kg, and 40.0g/kg.’ In abstract as well as everywhere in the full text, ‘intraperitonally’ word will be replaced by ‘intraperitoneally’. At the last line of the abstract, ‘tatrazine’ will be ‘tartrazine’. |  |
| Is the manuscript scientifically, correct? Please write here. | Yes |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Yes. Some references are very old. If possible, add some more recent journals like  Food and Chemical Toxicology, 2023, 178, 113935.  Food Chemistry, 2024, 433, 137425  Microbiology Research Journal International ,2025, 35 (3):15-24.  Reference format should be equal for all references in this paper. People easily collect the journal if its DOI is included with the references. So, if possible, add DOI with references. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | **Comment 1:** Abstract has a total of 369 words. It should be reduced. Remove the part, ‘The LD100 of tartrazine administered ……32.5g/kg, 37.5g/kg, and 40.0g/kg. In abstract as well as everywhere in the full text, ‘intraperitonally’ word will be replaced by ‘intraperitoneally’. At the last line of the abstract, ‘tatrazine’ will be ‘tartrazine’.  **Comment 2:** In Keywords, there are 11 key words. Put only 6-7 keywords. e.g. Tartrazine and Carmoisine are used here as azo dye. Keep only Azo dye. Remove the name of the dyes. Instead of so many names of diseases, put Health Issues in the keyword.  **Comment 3:** In the introduction part please mention the name of colours provided by Tartrazine and Carmoisine.  If possible, draw both the figure of Tartrazine and Carmoisine in the Chedraw app and insert the .tif file.  **Comment 4:** There are some grammatical mistakes. Please correct the following.  In 2.3.2 Oral Treatment, last line has ‘dyesolution’ should be ‘Dye solution’  In, 2.4 Equipment part Weigh Balance would be ‘Weighing Balance’  In 2.5 paragraph, Intraperitonally should be intraperitoneally.  In 3.1.3 ‘…significantly shorter time as the doses were increased except between except 0.5g/kg….’. Do not write except after between.  ‘However, there was no significant time difference 1.0g/kg and 1.53g/kg and 1.53g/kg and 2.0g/kg (Table 4).’ After difference, there will be between  In 3.2 In the first paragraph has score, then ‘;’ it will be ‘:’  In the second paragraph first line after intraperitonally an extra space is there. Next line to Table 7 in the text, there is addition, concerning. Before concerning there is extra space.  In the discussion part the first line tartarzine will be Tartrazine. ‘This implies that, as the doses were increased the time of onset of appearance of the signs and symptoms….’ After increased put ‘,’ and after onset of remove 'appearance of'  ‘….reddish soft stool (depending on the dye, tartazine or caromoisine), watery stool,….’ Correct both the dyes name,  ‘….reactive nitrogen species (RNS) linked with cell lesions, tissue perooxidation, and loss….’ Peroxidation will be peroxidation’.  ‘….ROS and RNS (oxidative stress) on the anti-oxidant state of the rats.’ Anti-oxidant will be antioxidant. |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)*  No |  |

**Reviewer Details:**

**Debashree Mandal, East Calcutta Girls’ College, India**