## Review Form 1.6

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| Journal Name: | **International Research Journal of Pure and Applied Chemistry** |
| Manuscript Number: | **Ms_IRJPAC_81498** |
| Title of the Manuscript: | **The Mechanism of the Davy Test for Strychnine** |
| Type of the 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:

(https://www.journalirjpac.com/index.php/IRJPAC/editorial-policy )

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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 | | |
| **Minor** REVISION comments | Some points deserve to be clarified before publication. I recommend the publication with minor revisions as follows:<br><br>**General Comments**<br>This converts the test in a toxicological assay with forensic application…. This converts the test into a toxicological assay with the forensic application.<br>The process is an electron-transfer oxidation…. The process is electron-transfer oxidation.<br>oxidation of aldehyde to carboxylic acid…. oxidation of the aldehyde to carboxylic acid.<br>It is important ascertain what is happening in a spot test…. It is important to ascertain what is happening in a spot test.<br>The reaction series occurs via radical-ion mechanism… The reaction series occurs via the radical-ion mechanism.<br>This communication is a follow up of our studies on reaction mechanism, [1-5]…. This communication is a follow to our studies on the reaction mechanism [1-5].<br>A magnificent violet colour is developed… Magnificent violet colour is developed.<br>There are also a ketone and a carboxylic acid…. There are also ketone and carboxylic acid.<br>preferred to an endocyclic one, more distant to the nitrogen atom…. preferred to an endocyclic one, more distant from the nitrogen atom.<br>to carbonyl, a conjugated lactam being formed…. to carbonyl, a conjugated lactam is formed.<br>an allylic alcohol whose oxidation gives rise to an epoxide, compare a similar mechanism [25]…. allylic alcohol whose oxidation gives rise to an epoxide, compare to a similar mechanism [25].<br>A ketone and an aldehyde are formed via a C-C fission…. A ketone and an aldehyde are formed via C-C fission.<br>The reactions go through radical -ion mechanism… The reactions go through a radical -ion mechanism.<br>The reaction course is electrophilic attack to the double bond… The reaction course is an electrophilic attack to the double bond. | |
| **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)* | |

**Reviewer Details:**

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|---|---|
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