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| Journal Name: | Asian Journal of Applied Chemistry Research |
| Manuscript Number: | **Ms_AJACR_47908** |
| Title of the Manuscript: | **Single-step synthesis of Coenzyme Q0** |
| 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)

SDI Review Form 1.6

**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)* |
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| **Compulsory** REVISION comments | I have reviewed the manuscript AJACR_47908 that you sent to me. I also accept your Journal's peer review policy. The manuscript reports an advancement and an improved organic synthesis of the coenzyme especially the elimination of transition metal catalyst from the reaction. The references quotes are adequate for the publication. The physical properties of the coenzyme so synthesized are correct. However, the manuscript should be revised to the satisfaction of the Editor before formal acceptance. The manuscript should<br><br>1. differentiate the information in Table 1 into (a) Figure 1: the flow-chart of reaction equations; and (b) Table 1: for the reaction conditions. Figure 1 should give the reactants, temperatures, and solvents like Occhipinti et al., (2010) did in their publication. Include in the Fig any intermediate compounds formed between trimethoxytoluene and persulfate as trimethoxytoluene does with acetic acid.<br><br>2. State what kind of acetic acid was used.<br><br>3. What was the ratio of the mixture of acetic acid and catalytic sulfuric acid? Explain the role of the sulfuric acid in relation to the persulfate?<br><br>4. State the concentration of sodium bicarbonate used for washing the organic phases.<br><br>5. Explain under Discussion why persulfate is able to replace transition metal complexes as the catalyst. | Correct was highlighted in the revised paper according to the reviewer's comments. |
| **Minor** REVISION comments | | |
| **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)* | Correct was highlighted in the revised paper according to the reviewer's comments. |