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| Book Name: | [**Chemistry and Biochemistry: Research Progress**](https://www.bookpi.org/bookstore/product/chemistry-and-biochemistry-research-progress-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4558** |
| Title of the Manuscript: | **Biodegradation of Cetyltrimethylammonium Bromide and Methylparaben in Shampoo and Hair Dressing Salon Waste Using Bacteria Isolated from Sewage Treatment Sludge** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Archives of Current Research International, 3(3): 1-9, 2016.**

**DOI:** [**https://doi.org/10.9734/ACRI/2016/25278**](https://doi.org/10.9734/ACRI/2016/25278)

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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.** | **Use of chemical surfactants like CTAB and Methyl paraben in cosmetics, personal care products like shampoo, hair creams, conditioner, face creams and increased use of beauty products, release them to our water environment. To analyse their toxicity to aquatic organisms through research is very important.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Title is suitable for this article** |  |
| 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 is comprehensive. The methods and result are clearly explained in the abstract.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Isolation of the test bacterial organisms and their culture growth are done using standard methods. Estimation of CTAB and MP in the samples are done using standard procedures. Hence this manuscript is scientifically correct. The statistical expression like ANOVA are not mentioned in the manuscript that may be added. The degradation pathway as stated in the below reference may be added. Identification of less hazardous intermediates like Trimethylamine and Dimethylamine by process like dealkylation and mineralisation by sludge bacterial mechanisms can be added.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | Biodegradation of Dodecyltrimethylammonium Bromide by *Pseudomonas fluorescens* F7 and F2 Isolated from Activated Sludge  [Naohiro Nishiyama](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Naohiro+Nishiyama" \o "Naohiro Nishiyama, Safety and Environmental Research Center, Kao Corporation), [Tsutomu Nishihara](https://www.jstage.jst.go.jp/search/global/_search/-char/ja?item=8&word=Tsutomu+Nishihara) (2002)  **The mechanism of degradation of DTAB by sludge bacteria or the pathway is clearly stated in this article** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Revision in English is must in sentence making in some places. |  |
| Optional/General comments | Synthetic surfactants are less hazardous to environment as they are biodegradable in two weeks. The results of this study are encouraging to personal care and cosmetics sector. |  |

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| **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:**

**Meena Parthiban, Bharathiar University, India**