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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\_5322** |
| Title of the Manuscript:  | **Chemistry of Blood Stain Removal After Setting** |
| 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.**

**Life Science Journal, 21(1): 49-54, 2024.**

**DOI: 10.7537/lsj210124.07.**

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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.** | The manuscript presents an investigation into blood stain removal techniques for textile materials: This manuscript provides scientific insight into the biochemical mechanisms behind blood stain removal, establishing connections between colloidal chemistry, protein behavior, and textile science.  The research offers practical significance for healthcare facilities by demonstrating that 5% sodium hydroxide effectively removes set blood stains through protein depolymerization, potentially reducing chemical usage and processing costs.  The findings will contribute to more environmentally sustainable laundry practices by proposing alternatives to bleach-based treatments, addressing an important challenge in institutional textile maintenance. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title is fine as it clearly indicates the focus of the research on the chemical aspects of removing set blood stains. |  |
| 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. | The abstract in this chapter provides a general overview of the research, but it lacks some key components that would make it more informative. Here are my suggestions for improvement:The abstract should include:1. A more specific description of the methodology used, including the experimental conditions (temperature, concentration of solutions, treatment time) rather than just listing the chemicals tested.
2. Quantitative results rather than just stating that "sodium hydroxide gave significant removal" - adding specific measures of effectiveness would strengthen the abstract.
3. A clearer statement of the proposed mechanism for why sodium hydroxide and alkaline sodium hydrosulphite are effective (i.e., the depolymerization of albumin and formation of water-soluble organic salts).
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| **Is the manuscript scientifically, correct? Please write here.**  | The manuscript contains scientific principles that are generally correct |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references provided in the manuscript are insufficient and not recent enough to properly support the research. The manuscript includes only 10 references, which is inadequate for a scientific paper on this topic. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes, the language are suitable |  |
| Optional/General comments |  |  |

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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)* |  |

**Reviewer details:**

**Monsuru Olatunji Dauda, Louisiana State University, USA**