|  |  |
| --- | --- |
| Book Name: | **Innovative Solutions: A Systematic Approach Towards Sustainable Future** |
| Manuscript Number: | **Ms\_BPR\_ 3724.35** |
| Title of the Manuscript: | **ANTIBACTERIAL SENSITIVITY OF BIOSYNTHESIZED SILVER NANOPARTICLES AGAINST FOOD SPOILAGE CAUSING****MICROORGANISMS** |
| Type of the Article | **Complete Book chapter** |

|  |
| --- |
| **PART 1: Review Comments** |
| **Compulsory** REVISION comments | **Reviewer’s comment** | **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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.** | **The topic of this manuscript is one of the important topics in the health field in finding alternatives to traditional methods as antibacterials, especially if the materials, methods, work procedures, and data and results are used correctly.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** |  **Suggest the following title:****ACTIVITY OF BIOSYNTHESIZED SILVER NANOPARTICLES AGAINST FOOD SPOILAGE CAUSING MICROORGANISMS** |  |
| **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.** | **Some keywords do not reflect the real content of the manuscript.** |  |
| **Are subsections and structure of the manuscript appropriate?** | **Very good** |  |

|  |  |  |
| --- | --- | --- |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.** | **-** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **References need to be updated so that the largest number is within the last five years, especially since the number of researches in this field has increased during this period. There are many references that address the topic of preparing silver nanoparticles by biological methods.** |  |
| Minor REVISION comments**Is the language/English quality of the article suitable for scholarly communications?** | Its good |  |
| **Optional/General** comments | * I suggest that the title of the manuscript be: “ACTIVITY OF BIOSYNTHESIZED SILVER NANOPARTICLES AGAINST FOOD SPOILAGE CAUSING MICROORGANISMS”
* Some keywords do not reflect the real content of the manuscript.
* The last paragraph in the introduction should explain the purpose and importance of this work without detailing the method of work and analysis techniques.
* The author did not explain the reason for choosing the pH (11) for the extract. What is meant by open heating? Doesn't this heating affect the properties of the resulting particles? There are measures that can be taken to reach the required pH instead of heating.
* The author did not mention in the materials and methods anything about using the UV- Vis spectrophotometer technique to obtain the absorbance spectrum.
* The author did not explain what the surface plasmon resonance property is and its importance.
* It was necessary to use the XRD technique to characterize the composition of the resulting particles to clarify their identity, crystal size, etc.
* How was the average size of the resulting particles calculated based on the SEM results? If the intended numbers are the numbers fixed in the analysis images, they represent the diameters of the resulting particles.
* It would have been better to put pictures of the bacterial media dishes to show the diameters of the inhibition zones.
* The author stated that the diameters of the inhibition zone were larger against Gram- negative bacteria than against Gram-positive bacteria, while the results shown in Table 1 indicate the opposite.
* From the results in Table 1, it appears that the effect of the resulting particles is the same as that of silver nitrate, so what is the difference? Please check the results.
* The method of citing references in discussing the results of this work is incorrect as the results appear to be taken from the references mentioned.
 |  |

|  |
| --- |
| **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: |
| Name: | **Sahar Naji Rashid** |
| Department, University & Country | **University of Tikrit, Iraq** |