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| Journal Name: | **[European Journal of Nutrition & Food Safety](https://journalejnfs.com/index.php/EJNFS)**  |
| Manuscript Number: | **Ms\_EJNFS\_132428** |
| Title of the Manuscript:  | **Emerging Trends in the Use of Nutraceuticals for Improved Poultry Production** |
| Type of the Article | **Review Article** |

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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.** | This manuscript is of great importance to the scientific community as it summarizes current approaches to the use of nutraceuticals in poultry production as a safe alternative to antibiotics in feed. It reviews a wide range of nutraceutical additives that contribute to improving poultry health, productivity and product quality. The work provides a comprehensive analysis of current research in this field and may be useful for scientists, veterinarians and animal nutritionists. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title of the article reflects the content of the work in general |  |
| 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 describes the relevance of the topic and the economic aspect well, emphasizing the role of nutraceuticals in reducing the risks associated with the use of antibiotics in poultry farming. However, it is worth specifying more clearly the object of the study - different types of nutraceuticals and their effects on poultry. It is also advisable to note that the article is based on an analysis of modern scientific research, and briefly summarize the main conclusions. Some sentences can be simplified, avoiding repetitions. This will make the abstract more meaningful and understandable for readers.  |  |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is scientifically correct, as it is based on current research, clearly highlights current trends in the use of nutraceuticals in poultry farming, and contains substantiated conclusions. It correctly describes the mechanisms of action of nutraceuticals, their impact on productivity, bird health, and product quality. At the same time, it is worth checking the consistency of terminology, for example, clearly determining whether the concepts of “nutraceuticals”, “functional food”, “feed additives”, “bioactive compounds” are interchangeable, or clarifying their differences. Excessive generalizations without scientific evidence should also be avoided. “Nutraceuticals have no side effects or microbial resistance” is a very strong generalization. Instead, it is better to use a milder formulation, that most nutraceuticals are safer than antibiotics. The generalization “Herbs, spices, fruits, and vegetables improve gut health and immune function” looks very categorical. It is worth giving specific examples or indicating that this is a possible effect, since not all of them have proven effectiveness in poultry farming. Overall, the work meets the requirements of a scientific article, but may require minor revision to improve the clarity of the presentation.  |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | About 40% of the references are from the last 5 years, which is a good indicator of relevance. At the same time, a tenth of the sources date back to before 2000, and while some of them are relevant for the historical context, others should be updated with more modern research. To improve the bibliography, it is worth increasing the share of recent sources (2020-2024), especially in the sections related to modern approaches to nutraceuticals, their mechanism of action and impact on poultry performance.  |  |
| Is the language/English quality of the article suitable for scholarly communications? | The English in the article is generally clear, but some sentences are too long or contain overly complex constructions, making it difficult to understand. However, English is not my native language, so I cannot objectively assess the quality of the language.  |  |
| Optional/General comments | The article is relevant, scientifically sound, and contains a broad review of the literature. The consistency of terminology should be improved and unsupported generalizations should be avoided. Some references are outdated, so it is recommended to update them with the latest research. The English is clear, but requires editorial review to improve the scientific style. Overall, the manuscript could be improved to improve clarity and accuracy of presentation. **(**The manuscript does not require any major changes, but it does require significant editing in terms of language, terminology, and updating of some references. After corrections, it can be recommended for publication.  |  |

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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 details)* |  |

**Reviewer details:**

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