



SDI Review Form 1.6

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_36365
Title of the Manuscript:	Growth Performance and Nitrogen Value of Broiler Finisher Birds (29-57 days) in Low-Protein Diets Supplemented with the Most Limiting Essential Amino Acids
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.

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(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
Compulsory REVISION comments	Abstract: Indicate the broiler strain in which trail is conducted. Indicate the different diets as D1 to D6. There is no detail how many birds used for trail, replicates etc.. It should be mentioned You have indicated as standard diet as control diet, Again it indicated as conventional control diet- which diet you are indicating. 2.4: Experimental diet 1. There is no detail how many birds used for trail, how many replicates, each replicate contain how many birds. Please mention on which standard the diet is prepared. 2. List out the four essential amino acids in the experimental diets. 3. Table 1 & Table 2 is attached but there is no detail regarding indicating the tables. 4. Mention the broiler strains. 5. There is no detail on metabolism trail, on which standard it is conducted, how many birds used for metabolism trail, how many days conducted etc... It should be mentioned. Table 2: Why only calculated composition is indicated, Analyzed chemical composition of diets can be mentioned. Results & Discussion: Standard diet (D1) has better growth & FCR, while discussing the result compare with control with other diets & mention it clearly. Many places it is mentioned as it is significant compared to others there is no indication diet has significant. It is confused at some places standard diet is indicated as conventional control diet, some places 20%CP is mentioned as conventional diet.	The broiler strain (Arbor Acre) has been indicated. The different diets (Diet 1 to 6) are indicated. The management of the experimental birds and the design of the experiment have been indicated in Section 2.3. Diet 1 is the control diet while diet 2 contained the same crude protein level as diet 1 but also had the 4 EAAs supplementation. This is done to validate the importance of the EAA supplementation. The details on experimental birds and design is incorporated in section 2.3 Tables 1 & 2 are explicit on the amino acids requirements (NRC, 1994) from which the diets were formulated. All other nutrient requirements were standard (NRC, 1994). The 4 essential amino acids (EAAs) are listed with their manufacturers and detailed compositions in Section 2.4 (Sourcing of Pharmaceutical Feed-Grade Amino Acids). Table 2 also reveals the 4 EAAs in the formulated diets. Only calculated composition was carried out. I agree that the analysed composition is an additional information. This is noted and the corrections effected. Noted and corrected. Noted and corrected. Noted and corrected.



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	In sixth paragraph, it is conveying that to add both EAA & NEAA to be supplemented while reducing the protein, whether you are suggesting to add both EAA & NEAA, discuss it clearly & you have added any nonessential Amino acid in your diets. In page 8, First paragraph, It is discussed as two authors low protein diet excreted less N but compared and written as disagreed among them, Please check it & discuss it clearly. Conclusion: In EAA supplementations, Please mention 3% CP can be reduced from which level to which level. As it is concluded that by reducing protein level causes low protein digestibility & poor nitrogen retention, whether there is any suggestion for increasing digestibility. Recommendation: It is recommended that Synthetic EAA can be supplemented only when it available at affordable prices. How much price difference is there among D1, D2 & D3 can be mentioned.	Noted and corrected. Noted. Economic evaluation of the present study has been accepted for publication in another Science Domain article.
Minor REVISION comments	1. Why the diet variation concentrated only at finisher phase can be discussed. 2. Why Other than control diet is formulated with only plant origin protein sources can be explained. 3. Spellings should be checked overall	Noted. Noted and incorporated in the Introduction section. Spellings have been proofread.
Optional/General comments	Oil is used as energy source in D3, D4, D5 & D6 , Whether it has any role in the performance & digestibility of birds can be explained.	Noted and explained in the Section 2.5 (experimental diets)