**A COMPARATIVE STUDY ON THE EFFECT OF *Cucumis sativus* FRUIT AND COMMERCIAL GROWER FED TO ALBINO RABBIT (*Nesolagus Oryctolagus*)**

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**BENIN CITY**

**MAY, 2024**

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**A PROJECT WRITTEN IN THE DEPARTMENT OF SCIENCE LABORATORY TECHNOLOGY AND SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF A BACHELORS (B.Sc.) DEGREE IN THE UNIVERSITY OF BENIN, BENIN CITY, NIGERIA.**

**MAY, 2024**

**CERTIFICATION**

We certify that this research titled “**A COMPARATIVE STUDY ON THE EFFECT OF *Cucumis sativus* FRUIT AND COMMERCIAL GROWER FED TO ALBINO RABBIT (*Nesolagus Oryctolagus*)”** was carried out by **Immaculata Osasenaga ORONSAYE (MISS)**

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**External Examiner** **Date**

**DEDICATION**

I dedicate this success story to God Almighty, for his grace upon my life.

**ACKNOWLEDGEMENTS**

I am very grateful to God Almighty for His protection and favour throughout this programme.

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**ABSTRACT**

Cucumber (*Cucumis sativus*), is one of the most valuable fruits globally consumed all over the world. Cucumbers are low in calories, fat, cholesterol, and salt and high in water content. The present study aims at evaluating the use of Cucumber (*Cucumis sativus*)as a source of livestock feed. The experimental animal explode in this study was a total of 30 albino rabbits which were randomly grouped into three treatments groups as Group 1 control CGMA (Commercial Growers Mash Alone), Group 2 CFA (Cucumber FruitsAlone) and Group 3 CFACF (Commercial Feed and Cucumber Fruits) comprising of 10 Albino rabbits per group. The animals in each group was fed 10% of their body weight, the weight was adjusted weekly on the basis of weight gain from week zero to 4 which was a total of 28 days. The weight of each rabbit in the respective groups were taken and recorded on weekly basis and evaluated for weight changes. On the completion of the feeding trials the albino rabbits were sacrificed and evaluated for hematological parameters like WBC (White blood cells), RBC (Red blood cells), PLT (Platelet), PCV (Pack cell volume), EOS (Eosinophil) and BASO (Basophil). The results revealed significant increase in body weight indexes of animals fed on CFA and CFACF, while there was observed significant increases in all the mentioned parameters of blood except EOS. CFA fed groups indicated not different of the control but CFACF group was spotted with an insignificant decrease in EOS this group was suspected to have come down with slight decline of eosinophils during anaphylaxis can be duly related to secretion of platelet activating factor (PAF). The results concludes that Cucumber (*Cucumis sativus*)is a good source of livestock feed.