

**DIETARY PROBIOTIC AS A SUPPLEMENT FOR
BROILERS IN CONVENTIONAL HOUSING**

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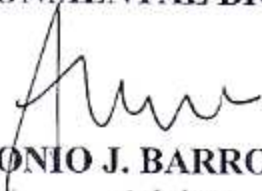
An Undergraduate Thesis Submitted to the Faculty of the Department of Environmental
Science, College of Arts and Sciences, Central Luzon State University,
Science City of Muñoz, Nueva Ecija, Philippines
in Partial Fulfillment of the Requirements
for the Degree of

**BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE
(Environmental Biology)**

FEBRUARY 2020

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The author, Ricalyn C. Soriano, was born on July 3, 1998 in Cabanatuan City, Nueva Ecija and now currently lives in Talavera, Nueva Ecija. As the youngest child of Rolando B. Soriano and Quiliana Soriano, she has two sisters and one brother.

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ACKNOWLEDGMENT

First and foremost, praises and thanks to our Almighty God, for His unconditional love and showers of blessings throughout her research work to complete her undergraduate thesis successfully. By His grace, she was able to finish her undergraduate thesis without any conflict.

She would like to express her deepest gratitude and appreciation to her Thesis Adviser Dr. Antonio J. Barroga for his continuous support, amazing cooperation, invaluable guidance and supervision. His guidance helped her in her research writing. She could not have imagined having a better adviser and mentor for her Undergraduate Thesis study.

Besides her adviser, she would like to thank the rest of her thesis panelists: Dr. Luzviminda S. Quitos, Ma'am Ma. Johanna J. De Dios and Dr. Sharon E. Lazaro, for their encouragement, insightful comments, and suggestions.

She is extremely grateful to her noble parents Mr. Rolando B. Soriano and Mrs. Quiliana C. Soriano for their unending love and support, for providing all her needs financially and morally, for their patience and understanding during her tiring days that she can't help them in their chores, for always their never fading advices and for always being there.

Also, she expresses her thanks to her sisters and brother for their support and prayers. Her special thanks to her boyfriend Edison R. Parica for his constant support, encouragement and for always being available to help her during her Undergraduate Thesis study that provided the foundation for this work.

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ABSTRACT

SORIANO, RICALYN C., Department of Environmental Science, College of Arts and Sciences, Central Luzon State University, Science City of Muñoz, Nueva Ecija, Philippines, **February 2019, DIETARY PROBIOTIC AS A SUPPLEMENT FOR BROILERS IN CONVENTIONAL HOUSING**

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The study involved 90 Cobb straight run broiler chicks randomly assigned to Control (45 birds) and Treatment 1 (45 birds) with 15 birds per replicate to determine the effects of dietary probiotics on the growth performance under conventional housing. The specifically, this study aimed to a.) evaluate the growth performance of broilers fed with and without probiotics; b.) compare the carcass yield and gut morphology (abdominal fat weight, abdominal fat percentage, liver weight, intestinal weight and intestinal length) of broilers fed with and without probiotics; and; c.) compare the economic benefit of broilers fed with and without probiotics. Treatment description were namely: SD (Standard Diet) and SD + Dietary Probiotic at 200g/100kg. The experiment was conducted for 35 days. The results showed a significant improvement ($P < 0.05$) in feed intake and feed conversion ratio. The gut morphology examination showed that probiotics had beneficial effect on dietary probiotics causing a significant increase on liver weight compared to fed without probiotics. Further study is needed to find the optimum application of such additives including their optimum dosage level in the feed in order to obtain maximum effects.

Key words: Probiotics, broiler, gut morphology, carcass yield, growth performance

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