**STUDY ON EVALUATION OF PROBIOTICS AVAILABLE IN THE MARKET**



A Production Report Presented in Partial Fulfillment of the Requirement for the Degree of Doctor of Veterinary Medicine

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**A Production Report Submitted as per approved style and content**

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**ACRONYMS**

FAO=Food and Agricultural Organization

WHO=World Health Organization

LAB=Lactic Acid Bacteria

CFU=Colony Forming Unit

DNA=Deoxyribo Nucleic Acid

DMC=Direct Microscopic Count

MF=Microscopic Factor

FDR=Focus Diameter Reading

FD=Focus Diameter

IG=Immunoglobulin

GIT=Gastro Intestinal Tract

VFA=Volatile Fatty Acid

GRAS=Generally Regarded as Safe

FDA=Food and Drug Administration

CVASU=Chittagong Veterinary and Animal Sciences University

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**PLAGIARISM CERTIFICATE**

It is given assurance that this report is not a facsimile of any other study report. However, various information is collected from some books and journals that are given in reference list, which are essential in preparing this report. So it’s claimed to be plagiarism certificate.

Sing of the author.

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**EVALUATION OF PROBIOTICS AVAILABLE IN MARKET**

**ABSTRACT**

Probiotics are live organisms that consume as food and feed additives which have a beneficial effect on the health of human as well as animals. In this study, I have evaluated 8 renowned probiotic samples. These are Microguard, Masticare, Biogen, Biolact, Probiogut, Poultry Star Sol, Protexin boost, Gut pro by using Direct Microscopic Count (DMC) method. 1 gm from each probiotic sample to be used and then diluted with distilled water. Thereafter, staning for bacterial count. Among these sample, average difference is 20.10% per gm. Poultry Star Sol, Protexin boost, Gut pro are around to reference value as 2.8, 5.0, and 10.0 % per gm respectively. The names of this company are Reneta, Novartis and Zeus respectively. On the other hand, Probiogut, Masticare, Biolact are below the reference value as 44, 30 and 25 % per gm and their companies are Vital BD and Masticare respectively.

Key words: Probiotic, Feed additives, evaluation, DMC, Reference value, renowned company.

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