

# CONTENTS

<b>Chapter</b>	<b>Topics</b>	<b>Page no</b>
	Contents	i-ii
	List of tables	iii
	List of figures	iv
	Acronyms and symbols used	v-vi
	Abstract	vii
<b>Chapter-I</b>	<b>Introduction</b>	<b>1-2</b>
<b>Chapter-II</b>	<b>Materials and methods</b>	<b>3-9</b>
	2.1 Statement of the experiment	3
	2.2 Preparation of the experimental house	3
	2.3 Layout of the experiment	3
	2.4. Collection of the experimental diet and test ingredients	4
	2.5 Management	5
	2.5.1 Housing and brooding	5
	2.5.2 Floor space	5
	2.5.3 Feeder and drinker space	6
	2.5.4 Feeding and watering	6
	2.5.5 Lighting:	6
	2.5.6 Immunization and medication:	6
	2.5.7 Data and sample collection	7
	2.6 Record keeping	7
	2.6.1 Body weight:	7
	2.6.2 Feed intake	8
	2.6.4 Temperature and relative humidity of house	8
	2.7 Calculation of data	8
	2.7.1 Weight gain:	8
	2.7.2 Feed conversion ratio (FCR):	8
	2.8 Statistical analysis	8

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<b>Chapter-III</b>	<b>Results</b>	<b>10-11</b>
	3 The gross responses and livability of broiler chickens fed probiotics	10
	3.1 Body weight gain	10
	3.2 Feed intake	10
	3.3. Feed Conversion Ratio (FCR)	11
<b>Chapter-IV</b>	<b>Discussion</b>	<b>12-14</b>
	4 Gross responses of broilers fed Probiotic:	12
	4.1 Body weight gain of broilers	12
	4.2 Feed intake	13
	4.3 Feed conversion ratio (FCR)	13
<b>Chapter-V</b>	<b>Conclusion</b>	<b>15</b>
<b>Chapter-VI</b>	<b>References</b>	<b>16-18</b>
	<b>Acknoeledge ment</b>	<b>19</b>
	<b>Biodata</b>	<b>20</b>

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## LIST OF TABLE

<b>Serial No</b>	<b>Name of tables</b>	<b>Page No</b>
1	Layout of experiment	4
2	Nutrient Composition of ready-made diet (CP)	4
3	Vaccination schedule	7
4	Body weight gain (g/bird) of broiler fed probiotic from d1- 28 days	9
5	Feed Intake (FI) of broiler fed probiotic from d1- 28 days	10
6	Feed Conversion Ratio (FCR) of broiler fed probiotic from d1- 28 days	10

## LIST OF FIGURE

<b>Serial No</b>	<b>Name of figure</b>	<b>Page No</b>
1	Inside View of Cage	9
2	Outside View of Cage	9
3	Baby Chicks in Carrier Box	9
4	Feeding the birds	9
5	Weighing of Baby Chicks	9
6	Weighting of feed	9

## ACRONYMS AND SYMBOLS USED

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<b>Abbreviations</b>	<b>Elaborations</b>
<	- Less than
>	- Greater than
%	- Percentage
AM	Ante Meridian
ANOVA	- Analysis of variance
BWG	- Body Weight Gain
CRD	- Complete Randomized Design
CVASU	- Chittagong Veterinary and Animal Sciences University
D	- Day
DLS	- Department of livestock services
DOC	- Day Old Chick
e.g.	- Example given
et al.	- And his associates
etc.	- Et cetera
FCR	- Feed conversion ratio
Gm	- Gram
<i>i.e.</i>	- That is
IB	- Infectious Bronchitis
IBD	- Infectious Bursal Disease
KG	- Kilogram

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LW	-	Live weight
ND	-	Newcastle Disease
NS	-	Non-significant
PM	-	Post Meridian
PRTC		Poultry Research and Training Institute
Ref.	-	Reference
SEM	-	Standard error of mean
Sig.	-	Significance

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## ABSTRACT

The present study was conducted to investigate the effects of probiotic on growth performance of broiler chickens from d1-28 days. A total of 96 day-old broiler chicks (Ross 308) was assigned into four dietary treatment groups, *i.e* D<sub>1</sub> (Control), D<sub>2</sub> (Poultry Starsol), D<sub>3</sub> (Avilac plus) and D<sub>4</sub> (Avibac) and each of the treatment replicated three times with eight birds per replicate in a completely randomized block design. The chicks were raised in battery cages all the trial period. Ready-made starter diet (crumble) was fed the birds up to 14 days, after that, grower (pellet) diet fed the broiler from d15 to 28 days. The water treated with probiotics at the rate of Poultry Starsol (1g/L), Avilac plus (1.0 ml/L) and Avibac (1g/L) in D<sub>2</sub>, D<sub>3</sub> and D<sub>4</sub> treatment groups, respectively, and supplied the birds' *ad libitum* entire the trial period. Data on feed intake (FI), body weight gain (BWG) and feed conversion ratio (FCR) were collected. The data revealed that feed intake of broilers had no difference ( $P>0.05$ ) between treatment on 28d. Except for first week, BWG was improved significantly ( $P<0.05$ ;  $P<0.01$ ) in the birds fed probiotics during d1-21 and d1-38, respectively. Superior FCR values (1.30, 1.34) were observed in the broilers of probiotics supplemented groups from d1-28 days of age. It can be concluded that broilers responded positively as a result of probiotics supplementation in water, and can be raised profitably under farming condition.

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**Key words:** Growth, probiotics, broiler, FCR