

# **THE IMPACT OF HERBAL LIVER TONIC (SUPERLIV®) ON THE GROWTH PERFORMANCE OF BROILERS CHICK**

## **Abstract**

The present study was conducted to investigate the effects of herbal liver tonic (superliv®) on the growth performance, mortality analyses of broilers from 1-28 days. A total of 144 day-old broiler chicks (Cobb 500) was assigned into four treatments, *i.e.* D<sub>1</sub>(Control), D<sub>2</sub> (1ml/L), D<sub>3</sub> (1.5 ml/L) and D<sub>4</sub> (2 ml/L). Each treatment replicated four times with nine birds per replicate in an experimental mode of Completely Randomized Design (CRD). The chicks were raised in the floor of an open-sided housing condition entire the trial period. Ready-made starter diet (crumble) was fed to the birds up to 16 days, after that, grower (pellet) diet is fed the broiler from 17 to 28 days. The water was treated with Superliv® at the rate of (1ml/L), (1.5 ml/L) and (2ml/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 (BW), feed conversion ratio (FCR) and livability (%) were collected. Apart from this, livability (%) of broilers were assessed on day 28. The data revealed that FI and viability (%) of broilers had no difference ( $P>0.05$ ) between treatment on 28d. Except for first week, BW was improved significantly ( $P<0.05$ ;  $P<0.01$ ) in the birds fed superliv® during d1-21 and d1-28, respectively. Significantly highest BW (1661.90 g/b) was found in the bird of D<sub>2</sub> group. Improved ( $P<0.05$ ;  $P<0.08$ ) FCR value was observed in the broilers fed on superliv® supplements (D<sub>2</sub>) compared to others. It can be concluded that Superliv® @ 1ml/liter of water was found to be more effective for compensating the negative impact of liver function of broiler, thereby improving the growth performance, nutrient utilization, carcass traits and economics of broiler production without any adverse effect on health of broilers.

**Key words:** Growth, Superliv®, viability, broilers chick.

## Table of Contents

<b><u>Abstract</u></b> .....	Error! Bookmark not defined.
<b><u>Table of Contents</u></b> .....	I
<b><u>List of Table</u></b> .....	III
<b><u>List of Abbreviations</u></b> .....	III
<b><u>List of Photograph</u></b> .....	IV
<b><u>Chapter I: Introduction</u></b> .....	Error! Bookmark not defined.
<b><u>Chapter II: Materials and Methods</u></b> .....	3
<b><u>2.1. Statement of experience</u></b> .....	3
<b><u>2.2. Preparation of the house</u></b> .....	3
<b><u>2.3. Layout of the experiment</u></b> .....	3
<b><u>2.4. Collection of test and feed ingredients</u></b> .....	4
<b><u>2.5. Management</u></b> .....	5
<b><u>2.6. Record keeping</u></b> .....	8
<b><u>2.7. Calculation of data</u></b> .....	9
<b><u>Chapter III: Results</u></b> .....	12
<b><u>3.1. The gross responses and livability of broilers chick on superliv</u></b> .....	12
<b><u>3.1.1. Body weight</u></b> .....	12
<b><u>3.1.2. Feed intake</u></b> .....	13
<b><u>3.1.3. Feed conversion ratio</u></b> .....	13
<b><u>3.1.4. Livability</u></b> .....	14
<b><u>Chapter IV: Discussion</u></b> .....	15
<b><u>Limitations</u></b> .....	17
<b><u>Conclusion</u></b> .....	18
<b><u>Recommendation</u></b> .....	18
<b><u>References</u></b> .....	20
<b><u>Acknowledgements</u></b> .....	23
<b><u>Biography</u></b> .....	24

## List of Tables

<b>Table</b>	<b>Title</b>	<b>Page</b>
<b>Table 1:</b>	Lay out of the experiment .....	4
<b>Table 2:</b>	Chemical composition of superliv® tonic.....	4
<b>Table 3:</b>	Vaccination schedule.....	7
<b>Table 4:</b>	Cumulative body weight of broiler chickens treated with superliv d1-28.....	13
<b>Table 5:</b>	Feed intake of broiler chickens treated with superlive from d1-28.....	13
<b>Table 6:</b>	Feed conversion ratio of broiler chickens treated with superliv from d1-28.....	14

## List of Abbreviations

Abbreviation	-	Elaboration
ANOVA	-	Analysis of Variance
BW	-	Body Weight
CRD	-	Completely Randomized Design
CVASU	-	Chittagong Veterinary and Animal Sciences University
DLS	-	Department of Livestock Service
DOC	-	Day Old Chick
e.g		Example
et al.	-	And his associates
etc		Et cetera
FCR	-	Feed Conversion Ratio
FI		Feed Intake

Gm	-	Gram
i.e.		That is
kg	-	Kilogram
LW	-	Live Weight
MS		Master of Science
NS	-	Non-Significant
Ref.		Reference
SEM	-	Standard Error of Mean
Sig		Significance
<	-	Less than
>	-	Greater than
%	-	Percentage

### **List of Photograph**

	<b>Page no.</b>
Picture 1: Brooding of chicks	11
Picture 2: Weighing of birds	11
Picture 3: Grower birds	11
Figure 1: Survivability of broiler chickens fed ready-made diets Supplemented with growth promoter	14

