

Table 3: Effect of experimental treatments on the performance of NZW growing rabbits.

Items	Treatment groups						SEM	Significance
	C	TU	BM	BS	BM +TU	BM + BS		
Initial body weight (g)	533.20	532.20	532.30	531.00	531.50	533.70	28.6	NS
5-9 weeks								
Body weight (g)	1044.9 ^b	1051.5 ^b	1044.0 ^b	1126.2 ^a	1094.5 ^{ab}	1086.6 ^{ab}	16.08	**
Body weight gain (g)	511.7 ^b	519.3 ^b	511.7 ^b	595.2 ^a	563.0 ^{ab}	552.9 ^{ab}	21.15	*
Feed intake (g)	2031.9 ^a	2003.2 ^a	1743.1 ^b	2062.9 ^a	1787.0 ^b	1786.9 ^b	48.8	**
Feed conversion	3.97 ^a	3.86 ^{ab}	3.41 ^{bc}	3.47 ^{bc}	3.17 ^c	3.23 ^c	0.14	**
9 - 13 weeks								
Body weight (g)	1726.1 ^c	1765.5 ^{bc}	1766.1 ^{bc}	1843.3 ^{ab}	1878.3 ^a	1872.5 ^a	29.02	**
Body weight gain (g)	681.2 ^b	714.0 ^{ab}	722.1 ^{ab}	717.1 ^{ab}	783.8 ^a	785.9 ^a	24.8	*
Feed intake (g)	2504.4 ^{ab}	2328.5 ^c	2378.4 ^{bc}	2550.5 ^a	2293.1 ^c	2431.9 ^{abc}	51.6	**
Feed conversion	3.68 ^a	3.26 ^{cd}	3.29 ^{bc}	3.56 ^{ab}	2.93 ^d	3.09 ^{cd}	0.11	**
Over all period (5-13 weeks)								
Body weight (g)	1726.1 ^c	1765.5 ^{bc}	1766.1 ^{bc}	1843.3 ^{ab}	1878.3 ^a	1872.5 ^a	29.02	**
Body weight gain (g)	1192.9 ^b	1233.3 ^b	1233.8 ^b	1312.3 ^a	1346.8 ^a	1338.8 ^a	27.2	**
Feed intake (g)	4536.3 ^a	4331.7 ^b	4121.5 ^{bc}	4613.4 ^a	4080.1 ^c	4218.8 ^{bc}	77.6	**
Feed conversion	3.80 ^a	3.51 ^b	3.34 ^{bc}	3.52 ^b	3.03 ^d	3.15 ^{cd}	0.07	**

^{a-d} = Means in the same row with different superscripts, differ significantly.

NS: Non-significant *: P≤ 0.05. **: P≤ 0.01. SEM: Standard errors of means.

C= Control TU= Turmeric BM= Biomos BS= Biostrong

Table 4: Effect of experimental treatments on some carcass traits of NZW growing rabbits.

Items	Treatment groups						SEM	Significance
	C	TU	BM	BS	BM +TU	BM + BS		
Dressing (%)	48.11 ^c	50.93 ^b	51.25 ^b	51.43 ^b	53.48 ^a	52.21 ^{ab}	0.57	**
Liver(%)	5.10	3.97	4.04	4.94	3.43	4.68	0.37	NS
Heart(%)	0.34	0.31	0.35	0.41	0.32	0.41	0.04	NS
Kidney(%)	0.70	0.68	0.68	0.60	0.79	0.62	0.67	NS
Edible giblet (%)	6.14	4.96	5.08	5.95	4.54	5.71	0.32	NS
Total edible parts (%)	54.25 ^b	55.89 ^{ab}	56.33 ^{ab}	57.38 ^a	58.02 ^a	57.92 ^a	0.70	*
Cecum weight (g)	100.93	105.57	113.37	118.10	111.90	110.00	12.28	NS
Intestine weight (g)	71.87	73.53	74.77	74.63	73.63	76.13	4.93	NS

^{a-c} = Means in the same raw with different superscripts, differ significantly.

NS: Non-significant *: P≤ 0.05. **: P≤ 0.01. SEM: Standard errors of means, C= Control TU= Turmeric BM= Biomos BS= Biostrong

Table 5: Effect of experimental treatments on pH and cecal microbial count of growing NZW rabbits

Items	Treatment groups						SEM	Significance
	C	TU	BM	BS	BM +TU	BM + BS		
pH	6.10 ^b	6.07 ^b	6.43 ^{ab}	6.67 ^a	6.69 ^a	6.60 ^{ab}	0.16	*
<i>Clostridia spp.</i> (x10 ⁵)	6.11 ^a	4.54 ^b	4.13 ^d	4.32 ^c	4.35 ^c	3.78 ^e	0.02	**
<i>E. coil</i> (x10 ⁵)	1.65 ^a	1.28 ^b	1.10 ^{cd}	1.19 ^{bc}	0.94 ^e	1.02 ^{de}	0.03	**
<i>Lactobacilli bacteria</i> (x10 ⁵)	5.13 ^f	9.85 ^e	10.10 ^d	10.44 ^c	11.28 ^a	10.76 ^b	0.03	**
<i>Urealetic bacteria</i> (x10 ⁵)	2.85 ^a	1.34 ^b	1.28 ^c	1.20 ^d	1.18 ^d	1.21 ^d	0.02	**
NH3 (mmol/ l)	4.74 ^a	3.74 ^b	3.59 ^c	3.52 ^d	3.49 ^{de}	3.45 ^e	0.02	**

^{a-c} = Means in the same raw with different superscripts, differ significantly (P≤ 0.05).

*: P≤ 0.05. **: P≤ 0.01. SEM: Standard errors of means., C= Control TU= Turmeric BM= Biomos BS= Biostrong

Table 6: Some blood hematological values of growing NZW rabbits as affected by experimental treatments

Items	Treatment groups						SEM	Significance
	C	TU	BM	BS	BM +TU	BM + BS		
WBCs ($10^3/\text{mm}^3$)	7.10 ^d	8.16 ^{bcd}	7.20 ^{cd}	8.23 ^{bc}	9.36 ^a	8.73 ^{ab}	0.33	**
Lymphocytes (%)	52.20 ^c	55.73 ^{abc}	54.80 ^{bc}	59.57 ^a	58.73 ^{ab}	51.90 ^c	1.38	**
Monocyte (%)	5.87 ^{bc}	7.73 ^a	6.93 ^{ab}	5.03 ^c	4.93 ^c	5.77 ^{bc}	0.50	**
Neutrophils (%)	35.50 ^a	28.53 ^b	29.60 ^b	29.07 ^b	28.33 ^b	29.67 ^b	1.80	NS
RBCs ($10^6/\text{mm}^3$)	4.43 ^d	5.73 ^b	5.13 ^c	5.50 ^{bc}	6.40 ^a	5.83 ^b	0.16	**
Hemoglobin (g/dl)	9.46 ^b	11.10 ^{ab}	10.10 ^b	10.93 ^{ab}	12.03 ^a	11.96 ^a	0.55	*
Haematocrit (%)	31.73 ^b	32.50 ^b	32.16 ^b	33.85 ^b	37.56 ^a	37.37 ^a	0.86	**
MCV⁽¹⁾ (fl)	62.93	61.60	62.30	61.63	65.43	63.80	1.05	NS
MCH⁽²⁾ (pg)	20.03	19.90	19.56	19.90	20.93	20.46	0.46	NS
MCHC⁽³⁾ (g/l)	32.00	32.00	31.33	32.33	32.33	32.00	0.47	NS

^{a-c} = Means in the same row with different superscripts, differ significantly ($P \leq 0.05$).

NS: Non-significant *; $P \leq 0.05$. **: $P \leq 0.01$. SEM: Standard errors of means, C= Control TU= Turmeric BM= Biomos BS= Biostrong
(1) Mean corpuscular volume, (2) Mean corpuscular hemoglobin (3) Mean corpuscular hemoglobin concentration

Table 7: Blood serum constituents of growing NZW rabbits as affected by experimental treatments.

Items	Treatment groups						SEM	Significance
	C	TU	BM	BS	BM +TU	BM + BS		
Total Protein (g/dl)	6.87 ^{ab}	6.85 ^{ab}	6.17 ^b	6.33 ^b	7.57 ^a	7.32 ^a	0.28	*
Albumine (g/dl)	3.75	3.61	3.13	3.32	3.86	3.78	0.22	NS
Glubuline (g/dl)	3.12	3.24	3.04	3.01	3.71	3.54	0.30	NS
A/G ratio	1.21	1.11	1.03	1.10	1.04	1.07	0.13	NS
Glucose (mg/dl)	84.86 ^c	93.22 ^b	99.54 ^a	102.24 ^a	93.40 ^b	81.80 ^c	1.87	**
Cholesterol(mg/dl)	317.83 ^a	216.06 ^b	222.51 ^b	211.97 ^b	141.78 ^c	156.36 ^c	9.04	**
AST (U/ml)	30.39	30.45	30.23	31.42	29.85	28.53	1.50	NS
ALT(U/ml)	45.33	43.89	43.50	39.66	39.98	46.75	1.70	NS
Urea (mg/dl)	47.50 ^a	34.19 ^b	37.17 ^b	36.75 ^b	32.07 ^b	30.30 ^b	2.27	**
Uric acid (mg/dl)	5.62 ^a	4.48 ^b	5.18 ^{ab}	3.21 ^c	3.47 ^c	4.69 ^{ab}	0.31	**
Creatinine (mg/dl)	1.37 ^a	1.05 ^{bc}	1.23 ^{ab}	1.21 ^{ab}	0.90 ^c	1.18 ^{ab}	0.06	**

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C= Control TU= Turmeric BM= Biomos BS= Biostrong

Table 8: Effect of experimental treatments on some chemical analysis in meat of growing NZW rabbits

Items	Treatment groups						SEM	Significance
	C	TU	BM	BS	BM +TU	BM + BS		
Total Protein (g/dl)	0.75 ^b	1.18 ^a	1.06 ^{ab}	1.64 ^a	1.65 ^a	1.57 ^a	0.20	*
Total Lipid (g/dl)	192.26 ^a	129.81 ^{ab}	94.56 ^b	134.6 ^{ab}	136.86 ^{ab}	80.13 ^b	21.92	*
Cholesterol(mg/dl)	126.48 ^a	89.56 ^{bc}	114.84 ^{ab}	113.08 ^{ab}	91.87 ^{bc}	76.32 ^c	1.56	**
Triglyceride (mg/dl)	46.02 ^a	45.29 ^a	19.78 ^d	30.40 ^b	27.58 ^{bc}	23.01 ^{cd}	1.56	**

^{a-c} = Means in the same raw with different superscripts, differ significantly.

*, P≤ 0.05. **, P≤ 0.01. SEM: Standard errors of means., C= Control TU= Turmeric BM= Biomos BS= Biostrong

