

Table (1): Effect of diclazuril (1 or 2 ppm), flavomycin (75g/ton) and their combinations on skin hypersensitivity (increase in the thickness of the wattle by mm) in chicken.

Group Days after injection	Treatment					Control	
	Diclazuril		Diclazuril + Flavomycin		Flavomycin	-ve	+ve
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
1 st day	0.19 ± 0.03 ^a	0.10 ± 0.02 ^b	0.18 ± 0.01 ^a	0.09 ± 0.02 ^b	0.22 ± 0.03 ^a	0.10 ± 0.01 ^b	0.21 ± 0.03 ^a
2 nd day	0.13 ± 0.03 ^a	0.03 ± 0.02 ^b	0.12 ± 0.03 ^a	0.04 ± 0.01 ^b	0.13 ± 0.02 ^a	0.03 ± 0.01 ^b	0.13 ± 0.03 ^a
3 rd day	0.01 ± 0.00 ^a	0.01 ± 0.00 ^a	0.02 ± 0.01 ^a	0.00 ± 0.00 ^a	0.03 ± 0.01 ^a	0.00 ± 0.00 ^a	0.02 ± 0.01 ^a
4 th day	0.00 ± 0.00 ^a	0.00 ± 0.00 ^a	0.00 ± 0.00 ^a	0.00 ± 0.00 ^a	0.00 ± 0.00 ^a	0.00 ± 0.00 ^a	0.00 ± 0.00 ^a

Values are mean ± S.D.(n = 5). Data were compared by ANOVA, Values superscripted by the same letter are not significantly different, p>0.05

Table (2): Effect of diclazuril (1 or 2 ppm), flavomycin (75g/ton) and their combinations on the total leucocytic count (x 10³) in chicken.

Group ge	Treatment					Control	
	Diclazuril		Diclazuril + Flavomycin		Flavomycin	-ve untreated unvaccin	+ve untreated vaccinated
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
21 day	38.5 ± 2.6 ^a	27.9 ± 2.2 ^b	37.7 ± 4.1 ^a	29.3 ± 1.3 ^b	39.8 ± 2.5 ^a	28.8 ± 3.4 ^b	41.7 ± 1.2 ^a
28 day	39.0 ± 2.7 ^a	28.7 ± 1.5 ^b	38.0 ± 3.3 ^a	29.8 ± 1.8 ^b	38.5 ± 1.9 ^a	29.5 ± 1.9 ^b	41.0 ± 1.3 ^a
35 day	39.3 ± 4.7 ^a	29.3 ± 2.3 ^b	39.0 ± 4.2 ^a	28.8 ± 1.8 ^b	40.7 ± 1.6 ^a	28.3 ± 1.8 ^b	39.5 ± 2.6 ^a
42 day	39.7 ± 3.7 ^a	28.3 ± 2.9 ^b	39.7 ± 4.6 ^a	27.3 ± 2.8 ^b	39.7 ± 2.9 ^a	30.3 ± 1.4 ^b	39.8 ± 1.3 ^a

Values are mean ± S.D.(n = 10). Data were compared by ANOVA, Values superscripted by the same letter are not

significantly different, $p > 0$

Table (3): Effect of diclazuril (1or 2 ppm), flavomycin (75g/ton) and their combinations on lymphocytes count (% of the total leucocytic count) in chicken.

Group Age	Diclazuril		Diclazuril + Flavomycin		Flavomycin	-ve	+ve
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
21 day	60.7 ± 3.0 ^a	48.3 ± 4.0 ^b	60.6 ± 3.6 ^a	47.6 ± 2.0 ^b	58.0 ± 4.2 ^a	47.3 ± 3.5 ^b	60.3 ± 4.0 ^a
28 day	61.1 ± 2.8 ^a	51.0 ± 3.0 ^b	62.3 ± 2.5 ^a	53.3 ± 2.4 ^b	62.6 ± 3.5 ^a	52.6 ± 3.2 ^b	61.3 ± 3.2 ^a
35 day	60.0 ± 4.0 ^a	51.6 ± 4.6 ^b	61.5 ± 5.0 ^a	51.3 ± 2.1 ^b	65.6 ± 3.6 ^a	53.9 ± 3.6 ^b	64.6 ± 2.8 ^a
42 day	62.4 ± 4.5 ^a	50.7 ± 4.4 ^b	63.9 ± 5.1 ^a	53.8 ± 3.7 ^b	64.8 ± 4.8 ^a	52.7 ± 4.1 ^b	64.3 ± 2.2 ^a

Values are mean ± S.D.(n =10). Data were compared by ANOVA, Values superscripted by the same letter are not significantly different, p>0.05.

Table (4): Effect of diclazuril (1 or 2 ppm), flavomycin (75g/ton) and their combinations on antibody titer (log transformed) in chicken.

Group Age	Diclazuril		Diclazuril + Flavomycin		Flavomycin	-ve	+ve
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
21 day	3.5 ± 0.1 ^a	2.3 ± 0.2 ^b	3.4 ± 0.1 ^a	2.4 ± 0.2 ^b	3.6 ± 0.1 ^a	2.2 ± 0.1 ^b	3.3 ± 0.5 ^a
28 day	2.7 ± 0.2 ^a	2.0 ± 0.5 ^b	3.0 ± 0.3 ^a	1.9 ± 0.2 ^b	3.1 ± 0.3 ^a	2.3 ± 0.2 ^b	3.4 ± 0.1 ^a
35 day	3.0 ± 0.5 ^a	2.1 ± 0.4 ^b	3.1 ± 0.2 ^a	2.2 ± 0.2 ^b	3.3 ± 0.3 ^a	2.1 ± 0.3 ^b	3.3 ± 0.2 ^a
42 day	3.7 ± 0.3 ^a	1.9 ± 0.4 ^b	3.0 ± 0.6 ^a	2.1 ± 0.4 ^b	3.1 ± 0.3 ^a	1.7 ± 0.3 ^b	3.1 ± 0.5 ^a

Values are mean ± S.D.(n = 5). Data were compared by ANOVA, Values superscripted by the same letter are not

significantly different, $p > 0.05$

Table (5): Effect of diclazuril (1 or 2 ppm), flavomycin (75g/ton) and their combinations on the total serum protein (g/dl) in chicken.

Group Age		Treatment					Control	
		Diclazuril		Diclazuril + Flavomycin		Flavomycin	-ve	+ve
		Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
21 day		3.80 ± 0.34 ^a	2.57 ± 0.22 ^b	3.67 ± 0.20 ^a	2.56 ± 0.29 ^b	3.70 ± 0.18 ^a	2.58 ± 0.20 ^b	3.98 ± 0.24 ^a
28 day		3.54 ± 0.18 ^a	2.49 ± 0.21 ^b	3.52 ± 0.31 ^a	2.57 ± 0.12 ^b	3.49 ± 0.17 ^a	2.50 ± 0.21 ^b	3.62 ± 0.15 ^a
35 day		3.53 ± 0.21 ^a	2.60 ± 0.26 ^b	3.54 ± 0.19 ^a	2.50 ± 0.24 ^b	3.36 ± 0.16 ^a	2.43 ± 0.25 ^b	3.51 ± 0.10 ^a
42 day		3.71 ± 0.19 ^a	2.64 ± 0.11 ^b	3.84 ± 0.12 ^a	2.65 ± 0.15 ^b	3.79 ± 0.17 ^a	2.57 ± 0.11 ^b	3.78 ± 0.25 ^a

Values are mean ± S.D.(n = 5). Data were compared by ANOVA, Values superscripted by the same letter are not significantly different, p>0.05

Table (6): Effect of diclazuril(1 or 2 ppm),flavomycin(75g/ton)and their combinations on the serum α-globulins (g/dl) in chicken.

Group Age		Treatment					Control	
		Diclazuril		Diclazuril + Flavomycin		Flavomycin	-ve	+ve
		Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
21 day	α ₁	0.73 ± 0.16 ^a	0.44 ± 0.04 ^b	0.64 ± 0.06 ^a	0.46 ± 0.03 ^b	0.66 ± 0.11 ^a	0.44 ± 0.06 ^b	0.76 ± 0.14 ^a
	α ₂	0.50 ± 0.04 ^a	0.35 ± 0.06 ^b	0.51 ± 0.07 ^a	0.34 ± 0.04 ^b	0.49 ± 0.02 ^a	0.32 ± 0.07 ^b	0.53 ± 0.10 ^a
28 day	α ₁	0.66 ± 0.04 ^a	0.43 ± 0.06 ^b	0.69 ± 0.02 ^a	0.46 ± 0.08 ^b	0.61 ± 0.08 ^a	0.44 ± 0.05 ^b	0.73 ± 0.13 ^a
	α ₂	0.46 ± 0.05 ^a	0.34 ± 0.03 ^b	0.45 ± 0.01 ^a	0.33 ± 0.04 ^b	0.47 ± 0.06 ^a	0.29 ± 0.04 ^b	0.46 ± 0.03 ^a
35 day	α ₁	0.70 ± 0.09 ^a	0.48 ± 0.03 ^b	0.66 ± 0.05 ^a	0.43 ± 0.02 ^b	0.66 ± 0.07 ^a	0.43 ± 0.05 ^b	0.65 ± 0.05 ^a
	α ₂	0.48 ± 0.05 ^a	0.33 ± 0.01 ^b	0.43 ± 0.03 ^a	0.32 ± 0.02 ^b	0.41 ± 0.02 ^a	0.30 ± 0.04 ^b	0.47 ± 0.04 ^a
42 day	α ₁	0.63 ± 0.08 ^a	0.41 ± 0.05 ^b	0.67 ± 0.05 ^a	0.46 ± 0.06 ^b	0.65 ± 0.06 ^a	0.42 ± 0.02 ^b	0.63 ± 0.03 ^a
	α ₂	0.47 ± 0.07 ^a	0.32 ± 0.02 ^b	0.45 ± 0.02 ^a	0.29 ± 0.03 ^b	0.46 ± 0.05 ^a	0.28 ± 0.05 ^b	0.44 ± 0.02 ^a

Values are mean ± S.D (n = 5). Data were compared by ANOVA, Values superscripted by the same letter are not significantly different, p>0.05

Table(7):Effect of diclazuril(1 or 2 ppm),flavomycin(75g/ton)and their combinations on the serum β -globulins (g/dl) in chicken.

Group Age		Treatment					Control	
		Diclazuril		Diclazuril + Flavomycin		Flavomycin	-ve	+ve
		Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
21 day	β_1	0.37 ± 0.05^a	0.22 ± 0.02^b	0.39 ± 0.04^a	0.23 ± 0.02^b	0.36 ± 0.03^a	0.21 ± 0.03^b	0.39 ± 0.04^a
	β_2	0.32 ± 0.03^a	0.20 ± 0.04^b	0.36 ± 0.01^a	0.24 ± 0.02^b	0.33 ± 0.04^a	0.21 ± 0.04^b	0.35 ± 0.03^a
28 day	β_1	0.35 ± 0.04^a	0.23 ± 0.03^b	0.32 ± 0.03^a	0.24 ± 0.01^b	0.31 ± 0.02^a	0.24 ± 0.02^b	0.33 ± 0.04^a
	β_2	0.27 ± 0.02^a	0.18 ± 0.03^b	0.27 ± 0.06^a	0.17 ± 0.02^b	0.25 ± 0.01^a	0.16 ± 0.03^b	0.26 ± 0.04^a
35 day	β_1	0.36 ± 0.02^a	0.21 ± 0.03^b	0.33 ± 0.04^a	0.22 ± 0.09^b	0.34 ± 0.01^a	0.17 ± 0.04^b	0.31 ± 0.02^a
	β_2	0.25 ± 0.02^a	0.13 ± 0.04^b	0.24 ± 0.03^a	0.13 ± 0.01^b	0.27 ± 0.02^a	0.10 ± 0.2^b	0.23 ± 0.01^a
42 day	β_1	0.27 ± 0.05^a	0.15 ± 0.04^b	0.26 ± 0.04^a	0.16 ± 0.03^b	0.30 ± 0.07^a	0.13 ± 0.02^b	0.27 ± 0.04^a
	β_2	0.25 ± 0.03^a	0.12 ± 0.03^b	0.23 ± 0.05^a	0.12 ± 0.02^b	0.27 ± 0.05^a	0.14 ± 0.03^b	0.24 ± 0.01^a

Values are mean \pm S.D.(n = 5). Data were compared by ANOVA, Values superscripted by the same letter are not significantly different, $p > 0.05$.

Table (8): Effect of diclazuril(1or 2 ppm),flavomycin(75g/ton)and their combinations on the serum δ -globulins (g/dl) in chicken.

Group Age		Treatment					Control	
		Diclazuril		Diclazuril + Flavomycin		Flavomycin	-ve	+ve
		Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
21 day	δ_1	0.49 ± 0.01^a	0.25 ± 0.05^b	0.42 ± 0.14^a	0.21 ± 0.04^b	0.55 ± 0.18^a	0.22 ± 0.06^b	0.51 ± 0.09^a
	δ_2	0.23 ± 0.02^a	0.10 ± 0.01^b	0.22 ± 0.06^a	0.11 ± 0.02^b	0.19 ± 0.04^a	0.09 ± 0.04^b	0.20 ± 0.02^a
28 day	δ_1	0.47 ± 0.08^a	0.29 ± 0.04^b	0.49 ± 0.16^a	0.31 ± 0.03^b	0.44 ± 0.05^a	0.26 ± 0.03^b	0.44 ± 0.03^a
	δ_2	0.14 ± 0.02^a	0.05 ± 0.01^b	0.15 ± 0.03^a	0.07 ± 0.02^b	0.14 ± 0.03^a	0.04 ± 0.01^b	0.17 ± 0.02^a
35 day	δ_1	0.43 ± 0.07^a	0.29 ± 0.01^b	0.45 ± 0.07^a	0.27 ± 0.07^b	0.39 ± 0.03^a	0.26 ± 0.04^b	0.42 ± 0.04^a
	δ_2	0.17 ± 0.02^a	0.04 ± 0.05^b	0.18 ± 0.01^a	0.06 ± 0.03^b	0.15 ± 0.01^a	0.06 ± 0.01^b	0.16 ± 0.02^a
42 day	δ_1	0.65 ± 0.07^a	0.39 ± 0.07^b	0.74 ± 0.15^a	0.40 ± 0.09^b	0.64 ± 0.09^a	0.41 ± 0.07^b	0.75 ± 0.17^a
	δ_2	0.24 ± 0.03^a	0.10 ± 0.03^b	0.22 ± 0.06^a	0.11 ± 0.02^b	0.24 ± 0.06^a	0.11 ± 0.03^b	0.27 ± 0.05^a

Values are mean \pm S.D.(n = 5). Data were compared by ANOVA, Values superscripted by the same letter are not significantly different, $p > 0.05$