

LAMPIRAN

Tabel 5. Hasil pemeriksaan titer antibodi *ND* pada ayam *broiler*.

Sampel	2^0	2^1	2^2	2^3	2^4	2^5	$2^{\dots n}$
P1			2	3			
P2			3	2			
P3			2	2	1		
P4			4	1			
Jumlah			13	8	1		
Rata-rata			3.25	2	0.25		

Keterangan : P1 = tetes mata
P2 = tetes hidung
P3 = tetes mulut
P4 = suntik

Perhitungan :

P1

$$4 - 2 = 1.20412$$

$$8 - 3 = 2.70927$$

$$5 \div 3.91339 = 0.66226$$

P2

$$4 - 3 = 1.80618$$

$$8 - 2 = 1.80618$$

$$5 \div 3.61236 = 0.722472$$

P3

$$4 - 2 = 1.20412$$

$$8 - 2 = 1.80618$$

$$16 - 1 = 1.20412$$

$$5 \div 4.21442 = 0.842884$$

P4

$$4 - 4 = 2.40824$$

$$8 - 1 = 0.90309$$

$$5 \div 3.31133 = 0.662266$$

Perhitungan titer antibodi *ND* pada ayam *broiler*.

$$\text{Faktor koreksi } C = \frac{Y^2}{p \cdot r} = \frac{(50)^2}{4 \times 5} = \frac{2500}{20} = 125$$

$$\begin{aligned} \text{JK(T)} &= \sum \sum y_{ij}^2 - C \\ &= (2^2 + 3^2 + \dots + 2^2) - 125 = 132 - 125 = 7 \end{aligned}$$

$$\begin{aligned} \text{JK(P)} &= \frac{1}{5} \sum y_i^2 - C = \frac{1}{5} \times (13^2 + 12^2 + 14^2 + 11^2) - 125 \\ &= 126 - 125 = 1 \end{aligned}$$

$$\text{JK(g)} = \text{JK(T)} - \text{JK(P)} = 7 - 1 = 6$$

$$\text{KT (p)} = \frac{\text{JK(P)}}{p-1} = \frac{1}{3} = 0,33$$

$$\text{KT (g)} = \frac{\text{JK(g)}}{(r-1)p} = \frac{6}{16} = 0,37$$

$$\text{KK} = \frac{\sqrt{\text{KT (g)}}}{y} \times 100\% = \frac{\sqrt{0,37}}{2} \times 100\% = ? \%$$

$$\text{Fhit} = \frac{\text{KT(p)}}{\text{KT(g)}} = \frac{0,33}{0,37} = 0,89$$

Keterangan:

C = faktor koreksi

JK(T) = jumlah kuadrat total

JK(g) = jumlah kuadrat galat

KT(p) = kuadrat tengah perlakuan

KT(g) = kuadrat tengah galat

KK = koefisien keragaman

Fhit = F hitung

Tabel 6. Analisis ragam pengaruh perlakuan terhadap titer antibodi ayam *broiler*.

SK	Db	JK	KT	F Hit	F 0.5	F 0.1
Perlakuan	3	1	0.33	0.89	?	?
Galat	16	6	0.37			
Total	19	7		KK	? %	

Keterangan : karena F hitung < F0.5 dan F0.1 maka perlakuan yang diberikan berpengaruh tidak nyata.

KK = koefisien keragaman

SK = sumber keragaman

Db = derajat bebas

JK = jumlah kuadrat

KT = kuadrat tengah

Hasil perhitungan total sel darah merah ayam *broiler*

$$\text{Faktor koreksi C} = \frac{Y^2}{p.r} = \frac{(46,72)^2}{4 \times 5} = \frac{2182,75}{20} = 109,14$$

$$\begin{aligned} \text{JK(T)} &= \sum \sum y_{ij}^2 - C \\ &= (2,75^2 + 3,15^2 + \dots + 1,87^2) - 109,14 = 112,32 - 109,14 = 3,19 \end{aligned}$$

$$\begin{aligned} \text{JK(P)} &= \frac{1}{5} \sum y_i^2 - C = \frac{1}{5} \times (12,15^2 + 11,02^2 + 12,81^2 + 10,74^2) - 109,14 \\ &= 109,69 - 109,14 = 0,56 \end{aligned}$$

$$\text{JK(g)} = \text{JK(T)} - \text{JK(P)} = 3,19 - 0,56 = 2,63$$

$$\text{KT (p)} = \frac{\text{JK(P)}}{p-1} = \frac{0,56}{3} = 0,19$$

$$\text{KT (g)} = \frac{\text{JK(g)}}{(r-1)p} = \frac{2,63}{16} = 0,16$$

$$\text{KK} = \frac{\sqrt{\text{KT (g)}}}{y} \times 100\% = \frac{\sqrt{0,16}}{9,34} \times 100\% = 4,34\%$$

$$F_{hit} = \frac{KT(p)}{KT(g)} = \frac{0,19}{0,16} = 1,14$$

Keterangan:

- C = faktor koreksi
 JK(T) = jumlah kuadrat total
 JK(g) = jumlah kuadrat galat
 KT(p) = kuadrat tengah perlakuan
 KT(g) = kuadrat tengah galat
 KK = koefisien keragaman
 Fhit = F hitung

Tabel 7. Analisis ragam pengaruh perlakuan terhadap total sel darah merah ayam *broiler*.

SK	Db	JK	KT	F Hit	F 0.5	F 0.1
Perlakuan	3	0,56	0,19	1,14	3,24	5,29
Galat	16	2,63	0,16			
Total	19	3,19		KK 4,34%		

Keterangan : karena F hitung < F0.5 dan F0.1 maka perlakuan yang diberikan berpengaruh tidak nyata.

- KK = koefisien keragaman
 SK = sumber keragaman
 Db = derajat bebas
 JK = jumlah kuadrat
 KT = kuadrat tengah

Hasil perhitungan total sel darah putih ayam *broiler*.

$$\text{Faktor koreksi } C = \frac{Y^2}{p.r} = \frac{(895)^2}{4 \times 5} = \frac{801025}{20} = 40,051$$

$$JK(T) = \sum \sum y_{ij}^2 - C$$

$$= (47^2 + 44^2 + \dots + 41^2) - 40,051 = 41,131 - 40,051 = 1.080$$

$$JK(P) = \frac{1}{5} \sum y_i^2 - C = \frac{1}{5} \times (206^2 + 245^2 + 198^2 + 246^2) - 40,051$$

$$= 425,001 - 40,051 = 384,95$$

$$JK(g) = JK(T) - JK(P) = 1.080 - 384,95 = 694,80$$

$$KT(p) = \frac{JK(P)}{p-1} = \frac{384,95}{3} = 128,32$$

$$KT(g) = \frac{JK(g)}{(r-1)p} = \frac{694,80}{16} = 43,42$$

$$KK = \frac{\sqrt{KT(g)}}{y} \times 100\% = \frac{\sqrt{43,42}}{179} \times 100\% = 3,68\%$$

$$F_{hit} = \frac{KT(p)}{KT(g)} = \frac{128,32}{43,42} = 2,95$$

Keterangan:

C = faktor koreksi

JK(T) = jumlah kuadrat total

JK(g) = jumlah kuadrat galat

KT(p) = kuadrat tengah perlakuan

KT(g) = kuadrat tengah galat

KK = koefisien keragaman

F_{hit} = F hitung

Tabel 8. Analisis ragam pengaruh perlakuan terhadap total sel darah putih ayam *broiler*.

SK	Db	JK	KT	F Hit	F 0.5	F 0.1
Perlakuan	3	384,95	128,32	2,95	3,24	5,29
Galat	16	694,80	43,42			
Total	19	1.080		KK	3,68%	

Keterangan : karena F hitung < F_{0.5} dan F_{0.1} maka perlakuan yang diberikan berpengaruh tidak nyata.


KK = koefisien keragaman

SK = sumber keragaman

Db = derajat bebas

JK = jumlah kuadrat

KT = kuadrat tengah

P3U3	P2U4	P4U3	P1U4	P4U5	U	P3U1	P1U3	P4U4	P2U3	P3U2
P2U1	P1U2	P4U1	P2U2	P3U5		P1U1	P4U2	P2U5	P3U4	P1U5

Gambar 4. Tata letak kandang penelitian

Keterangan : P1 = tetes mata
P2 = tetes hidung
P3 = tetes mulut
P4 = suntik
U1 – U5 ulangan 1 sampai 5 kali

Tabel 9. Kelembaban kandang

Hari	Kelembaban (%)			
	06.30	14.00	18.00	24.00
1	82	52	68	88
2	91	54	82	94
3	93	64	90	93
4	93	68	86	90
5	89	76	82	96
6	94	62	91	90
7	93	73	90	90
8	90	64	85	96
9	94	55	76	93
10	92	50	75	91
11	92	63	80	94
12	93	53	84	92
13	93	55	81	89
14	96	64	85	92
15	94	52	74	88
16	85	62	87	93
17	93	62	90	88
18	89	54	90	94
19	93	59	80	89
20	96	55	76	93
21	90	49	70	89
Rata-rata	91.6	59.3	82.0	91.5

Tabel 10. Suhu kandang

Hari	Suhu °(C)			
	06.30	14.00	18.00	24.00
1	24	35	29	26
2	26	33	29	25
3	27	32	27	26
4	26	30	29	27
5	25	31	30	26
6	26	30	29	26
7	27	32	27	27
8	27	31	32	26
9	26	32	31	27
10	25	35	30	26
11	27	34	30	27
12	25	33	27	26
13	26	34	27	26
14	26	33	29	25
15	24	35	30	26
16	25	35	28	25
17	26	35	27	26
18	26	34	28	25
19	24	34	32	25
20	26	32	30	25
21	26	33	31	27
Rata-rata	25.7	33.0	29.1	25.9

Tabel 11. Hasil pemeriksaan titer antibodi ayam *broiler* umur 21 hari

		2	4	16	32	64	C	
P1	1	-	-					2^2 (4)
	2	-	-	-				2^3 (8)
	3	-	-	-				2^3 (8)
	4	-	-	-				2^3 (8)
	5	-	-					2^2 (4)
P2	1	-	-					2^2 (4)
	2	-	-					2^2 (4)
	3	-	-	-				2^3 (8)
	4	-	-					2^2 (4)
	5	-	-	-				2^3 (8)
P3	1	-	-	-				2^3 (8)
	2	-	-					2^2 (4)
	3	-	-	-	-			2^4 (16)
	4	-	-					2^2 (4)
	5	-	-	-				2^3 (8)
P4	1	-	-					2^2 (4)
	2	-	-					2^2 (4)
	3	-	-	-				2^3 (8)
	4	-	-					2^2 (4)
	5	-	-					2^2 (4)

Keterangan : P1 = tetes mata
P2 = tetes hidung
P3 = tetes mulut
P4 = suntik