

**LAMPIRAN – LAMPIRAN**



## Lampiran 01. Perhitungan Statistik Kadar Hemoglobin

Zn	Cu	A0	A1	A2	A3	$\Sigma$ pengaruh Zn	rerata
B0	I	10.0	9.8	10.0	9.4	75.4	9.475
	II	10.0	8.6	8.0	9.6		
B1	I	8.4	9.4	8.8	9.8	73.8	9.225
	II	8.0	9.8	10.2	9.4		
B2	I	8.8	8.8	9.8	9.6	71.6	8.950
	II	8.6	8.6	8.8	8.6		
B3	I	8.2	8.0	9.2	8.2	68.8	8.600
	II	9.2	9.2	8.2	8.6		
$\Sigma$ pengaruh Cu		71.2	72.2	73.0	73.2	289.6	
rerata		8.900	9.025	9.125	9.150	9.088	

$$FK = \frac{(\Sigma x)^2}{n} = \frac{(289.6)^2}{32} = 2620.88$$

$$JK_{TOTAL} = \left[ (10.0)^2 + (9.8)^2 + \dots + (8.6)^2 \right] - FK$$

$$= 2635.36 - 2620.88$$

$$= 14.48$$

$$JK_{Perl} = 1/2 \left[ (20)^2 + (18.4)^2 + \dots + (16.8)^2 \right] - FK$$

$$= 2628.56 - 2620.88$$

$$= 7.68$$

$$JK_{A \text{ tembaga}} = 1/8 \left[ (71.2)^2 + \dots + (73.2)^2 \right] - FK$$

$$= 2621.19 - 2620.88$$

$$= 0.310$$

$$JK_{B \text{ seng}} = 1/8 \left[ (75.4)^2 + \dots + (67.8)^2 \right] - FK$$

$$= 2623.95 - 2620.88$$

$$= 3.070$$

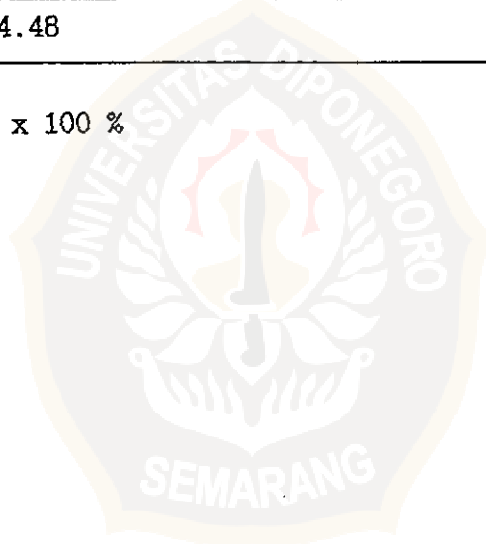
$$\begin{aligned} \text{JK AB} &= \text{JK Perl} - \text{JKA} - \text{JKB} \\ &= 7.69 - 0.310 - 3.070 \\ &= 4.30 \end{aligned}$$

$$\begin{aligned} \text{JK GALAT} &= \text{JKTOTAL} - \text{JKPerl} \\ &= 14.48 - 7.68 \\ &= 6.8 \end{aligned}$$

#### Analisis Sidik Ragam Kadar Hemoglobin

SK	DB	JK	KT	FH	F tab 5%
Perlakuan	15	7.68	0.512	1.204	2.35
Faktor A	3	0.31	0.103	0.243	3.24
Faktor B	3	3.07	1.023	2.408	3.24
Faktor AB	9	4.30	0.478	1.124	2.59
Galat	16	6.80	0.425		
Total	31	14.48			

$$\begin{aligned} \text{KK} &= (0.425/9.088) \times 100 \% \\ &= 7.17 \% \end{aligned}$$



Lampiran 02. Jumlah eritrosit (juta/mm<sup>3</sup>) setelah pemberian larutan mikromineral

Zn	Cu	A0	A1	A2	A3	Σ pengaruh Zn	rerata
B0	I	2.940	2.800	2.950	2.800	22.493	2.812
	II	2.960	2.630	2.588	2.825		
B1	I	2.505	2.760	2.690	2.910	21.945	2.743
	II	2.500	2.840	2.960	2.780		
B2	I	2.705	2.715	2.870	2.860	21.695	2.712
	II	2.620	2.640	2.640	2.645		
B3	I	2.600	2.620	2.740	2.593	21.418	2.677
	II	2.810	2.810	2.605	2.640		
Σ pengaruh Cu		21.640	21.815	22.043	22.053	87.551	
rerata		2.705	2.727	2.755	2.757	2.736	

$$FK = \frac{(\sum x)^2}{n} = \frac{(87.551)^2}{32} = 239.5368$$

$$\begin{aligned} Jk \text{ Total} &= \left[ (2.94)^2 + (2.800)^2 + \dots + (2.64)^2 \right] - FK \\ &= 240.0928 - 239.5368 \\ &= 0.556 \end{aligned}$$

$$\begin{aligned} JK_{\text{Perl}} &= 1/2 \left[ (5.9)^2 + (5.43)^2 + \dots + (5.234)^2 \right] - FK \\ &= 239.8578 - 239.5368 \\ &= 0.321 \end{aligned}$$

$$\begin{aligned} JKA_{\text{tembaga}} &= 1/8 \left[ (21.640)^2 + \dots + (22.053)^2 \right] - FK \\ &= 239.6868 - 239.5368 \\ &= 0.15 \end{aligned}$$

$$\begin{aligned} JKB_{\text{seng}} &= 1/8 \left[ (22.493)^2 + \dots + (21.418)^2 \right] - FK \\ &= 240.3166 - 239.5368 \\ &= 0.78 \end{aligned}$$

$$\begin{aligned}
 JKAB &= JKPerl - JKA - JKB \\
 &= 0.326 - 0.14 - 0.79 \\
 &= 0.228
 \end{aligned}$$

$$\begin{aligned}
 JK \text{ GALAT} &= JKT - JKPerl \\
 &= 0.559 - 0.326 \\
 &= 0.235
 \end{aligned}$$

Analisis sidik ragam jumlah eritrosit

SK	DB	JK	KT	FH	F tab 5%
Perlakuan	15	0.321	0.021	1.426	2.35
faktor A	3	0.015	0.005	0.335	3.24
faktor B	3	0.078	0.026	1.781	3.24
faktor AB	9	0.228	0.025	1.728	2.59
Galat	16	0.235	0.015		
Total	31	0.556			

$$\begin{aligned}
 KK &= (\sqrt{0.015/2.736}) \times 100 \% \\
 &= 4.47 \%
 \end{aligned}$$



## Lampiran 03. Data konsumsi pakan selama penelitian

No	perlakuan	konsumsi (gram)	
		I	II
1.	AOB0	2313.1	2289.2
2.	AOB1	2363.9	2279.2
3.	AOB2	2323.6	2317.0
4.	AOB3	2309.4	2389.1
5.	A1B0	2345.0	2305.4
6.	A1B1	2351.8	2342.4
7.	A1B2	2343.0	2276.4
8.	A1B3	2378.9	2387.1
9.	A2B0	2361.8	2363.3
10.	A2B1	2388.4	2331.2
11.	A2B2	2375.8	2357.6
12.	A2B3	2377.9	2342.4
13.	A3B0	2343.2	2289.8
14.	A3B1	2320.6	2337.3
15.	A3B2	2394.0	2362.8
16.	A3B3	2374.5	2377.2

## ANOVA PAKAN :

S. KERAGAMAN	DB	JK	KT	FHIT	FTAB
Perlakuan	15	21935.537	1462.369	1.552	2.35
Faktor A	3	6859.693	2286.564	2.428	3.24
Faktor B	3	7167.918	2389.306	2.537	3.24
Interaksi AB	9	7907.925	878.658	0.933	2.54
Galat	16	15069.815	941.863		
Total	31	37005.352			

Keterangan : F Hitung lebih kecil dari F tabel, menunjukkan tidak ada satu pasang perlakuan yang menyebabkan berbeda nyata.

Lampiran 04. Pengamatan Rerata Temperatur Selama Perlakuan

Hari ke-	Temperatur (C)
1. 30 April 1998	32
2. 1 Mei 1998	32
3. 2 Mei 1998	32
4. 3 Mei 1998	30
5. 4 Mei 1998	32
6. 5 Mei 1998	32
7. 6 Mei 1998	32
8. 7 Mei 1998	31
9. 8 Mei 1998	31
10. 9 Mei 1998	31
11. 10 Mei 1998	31
12. 11 Mei 1998	31
13. 12 Mei 1998	31
14. 13 Mei 1998	32

