

Lampiran 1. Data berat badan ayam pedaging penelitian tahap pertama

No	Perlakuan	Berat badan (g/ekor)		
		Tiap plot	Rataan	
1	M ₀	U1	2121	2065.8
2		U2	2017	
3		U3	2050	
4		U4	2131	
5		U5	2010	
6	M ₁	U1	2070	2066.2
7		U2	2111	
8		U3	2010	
9		U4	2120	
10		U5	2020	
11	M ₂	U1	2072	2078.2
12		U2	2115	
13		U3	2044	
14		U4	2130	
15		U5	2030	
16	M ₃	U1	2004	2047.4
17		U2	2039	
18		U3	2078	
19		U4	2099	
20		U5	2017	
Rataan				2064.40
Standart Deviasi				12.71
Koefisien Keragaman				0.62

Lampiran 2. Data temperatur dan kelembaban kandang selama penelitian tahap pertama

Hari penelitian Ke-	Temperatur (°C)			Kelembaban (%)		
	Pagi (06.00 WIB)	Siang (13.00 WIB)	Malam (21.00 WIB)	Pagi (06.00 WIB)	Siang (13.00 WIB)	Malam (21.00 WIB)
1	26	30	24	88	66	89
2	26	31	24	88	67	89
3	25	31	24	88	66	90
4	26	31	23	88	66	90
5	25	30	24	88	67	90
6	26	30	25	88	66	91
7	25	30	25	86	67	91
8	24	31	23	90	67	89
9	25	30	24	87	68	90
10	24	31	25	90	68	90
Rataan	25.20	30.50	24.10	88.10	66.80	89.90
Standar Deviasi	0.79	0.53	0.74	1.20	0.79	0.74

Lampiran 3. Hasil analisa sampel ekskreta ayam pedaging penelitian tahap pertama

No	Perlakuan	Hasil analisa ekskreta			
		Protein Kasar (%)	Rataan	Gross Energy (kkal/kg)	Rataan
1	M ₀	U1	18.30		3357
2		U2	18.88	17.93	3273
3		U3	17.10		3296
4		U4	17.44		3289
5	M ₁	U1	17.84		3127
6		U2	16.14	17.33	3181
7		U3	17.21		3127
8		U4	18.11		3064
9	M ₂	U1	19.18		3296
10		U2	19.33	18.87	3274
11		U3	19.52		3199
12		U4	17.44		3253
13	M ₃	U1	17.63		3253
14		U2	16.21	16.90	3159
15		U3	16.62		3177
16		U4	17.15		3235
Rataan				17.76	3222.50
Standar Deviasi				0.85	76.42
Koefisien Kergaman				4.80	2.37

Lampiran 4. Hasil analisa kadar immunoglobulin G ayam pedaging penelitian tahap pertama

No	Perlakuan	U	Hasil analisa Kadar Immunoglobulin G (%)	Rataan
1	M ₀	U1	30.64	39.08
2		U2	34.27	
3		U3	39.22	
4		U4	52.19	
5	M ₁	U1	38.48	32.96
6		U2	38.8	
7		U3	27.77	
8		U4	26.77	
9	M ₂	U1	43.7	31.69
10		U2	30.93	
11		U3	28.59	
12		U4	23.52	
13	M ₃	U1	3.61	5.09
14		U2	9.49	
15		U3	5.23	
16		U4	2.03	
Rataan				27.20
Standar Deviasi				15.09
Koefisien Keragaman				55.48

Lampiran 5. Analisa statistik pengaruh pemberian enzim β -mannanase terhadap energi metabolis

Kelompok	Energi metabolis	Jumlah	Rataan	SD
M0 (I)	3134			
M0 (II)	3188	12669.30	3167.33	23.73
M0 (III)	3180			
M0 (IV)	3167			
M1 (I)	3318			
M1 (II)	3312	13278.63	3319.66	24.36
M1 (III)	3296			
M1 (IV)	3353			
M2 (I)	3310			
M2 (II)	3308	13292.02	3323.01	16.21
M2 (III)	3337			
M2 (IV)	3337			
M3 (I)	3353			
M3 (II)	3359	13434.64	3358.66	18.08
M3 (III)	3383			
M3 (IV)	3340			

ANOVA

Kecernaan_Energi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	86996.188	3	28998.729	67.046	.000
Within Groups	5190.250	12	432.521		
Total	92186.438	15			

Kecernaan_Energi

Duncan

Treatment	N	Subset for alpha = 0.05		
		1	2	3
M0	4	3.1672E3		
M1	4		3.3198E3	
M2	4		3.3230E3	
M3	4			3.3588E3
Sig.		1.000	.829	1.000

Means for groups in homogeneous subsets are displayed.

Lampiran 6. Analisa statistik pengaruh pemberian enzim β -mannanase terhadap pencernaan protein

Kelompok	Kecernaan protein	Jumlah	Rataan	SD
M0 (I)	75.32			
M0 (II)	75.27	304.83	76.21	1.09
M0 (III)	77.48			
M0 (IV)	76.75			
M1 (I)	78.53			
M1 (II)	78.87	314.74	78.69	0.15
M1 (III)	78.75			
M1 (IV)	78.59			
M2 (I)	79.00			
M2 (II)	78.69	316.58	79.15	0.75
M2 (III)	78.65			
M2 (IV)	80.24			
M3 (I)	80.37			
M3 (II)	81.52	324.03	81.01	0.70
M3 (III)	81.70			
M3 (IV)	80.43			

ANOVA

Kecernaan_Protein

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	46.898	3	15.633	27.539	.000
Within Groups	6.812	12	.568		
Total	53.710	15			

Kecernaan_Protein

Duncan

Treatment	N	Subset for alpha = 0.05		
		1	2	3
M0	4	76.2064		
M1	4		78.6857	
M2	4		79.1458	
M3	4			81.0071
Sig.		1.000	.405	1.000

Means for groups in homogeneous subsets are displayed.

Lampiran 7. Analisa statistik pengaruh pemberian enzim β -mannanase terhadap kadar immunoglobulin G

Kelompok	Konsentrasi immunoglobulin G	Jumlah	Rataan	SD
M0 (I)	30.64			
M0 (II)	34.27	156.32	39.08	9.42
M0 (III)	39.22			
M0 (IV)	52.19			
M1 (I)	38.48			
M1 (II)	38.8	131.82	32.96	6.58
M1 (III)	27.77			
M1 (IV)	26.77			
M2 (I)	43.7			
M2 (II)	30.93	126.74	31.69	8.59
M2 (III)	28.59			
M2 (IV)	23.52			
M3 (I)	3.61			
M3 (II)	9.49	20.36	5.09	3.21
M3 (III)	5.23			
M3 (IV)	2.03			

ANOVA

Konsentrasi Ig y

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2732.887	3	910.962	16.864	.000
Within Groups	648.200	12	54.017		
Total	3381.086	15			

Konsentrasi Ig y

Duncan

Treatment	N	Subset for alpha = 0.05	
		1	2
M3	4	5.0900	
M2	4		31.6850
M1	4		32.9550
M0	4		39.0800
Sig.		1.000	.200

Means for groups in homogeneous subsets are displayed.

Lampiran 8. Data temperatur dan kelembaban kandang selama penelitian tahap kedua

Hari penelitian	Temperatur (°C)			Kelembaban (%)		
	Pagi (06.00 WIB)	Siang (13.00 WIB)	Malam (21.00 WIB)	Pagi (06.00 WIB)	Siang (13.00 WIB)	Malam (21.00 WIB)
1	26	30	24	88	66	89
2	26	31	24	88	67	89
3	25	31	24	88	66	90
4	26	31	23	88	66	90
5	25	30	24	88	67	90
6	26	30	25	88	66	91
7	25	30	25	86	67	91
8	24	31	23	90	67	89
9	25	30	24	87	68	90
10	24	31	25	90	68	90
11	26	30	24	88	66	89
12	26	31	24	88	67	89
13	25	31	24	88	66	90
14	26	31	23	88	66	90
15	25	30	24	88	67	90
16	26	30	25	88	66	91
17	25	30	25	86	67	91
18	24	31	23	90	67	89
19	25	30	22	87	68	90
20	24	31	23	90	68	90
21	26	30	24	88	66	89
22	24	31	24	88	67	89
23	25	31	23	88	66	90
24	26	31	22	88	66	90
25	24	30	22	88	67	90
26	23	29	23	88	66	91
27	25	29	22	86	67	91
28	24	28	23	90	67	89
29	25	30	22	87	68	90
30	24	29	22	90	68	90
31	26	30	24	88	66	89
32	26	29	24	88	67	89
33	25	30	24	88	66	90
34	26	30	23	88	66	90
35	25	29	24	88	67	90

36	26	29	25	88	66	91
37	25	30	25	86	67	91
38	24	31	23	90	67	89
39	25	30	24	87	68	90
40	25	30	24	87	68	90
41	24	31	25	90	68	90
Rataan	25.05	30.17	23.66	88.07	66.83	89.90
Standar Deviasi	0.84	0.77	0.96	1.15	0.77	0.70

Lampiran 9. Analisa statistik pengaruh pemberian enzim β -mannanase dengan level energi yang berbeda terhadap *Feed intake* atau konsumsi pakan

Kelompok	Rata-rata	Jumlah	Rataan	SD
E0	26.31	103.46	25.87	1.23
	24.08			
	26.14			
	26.92			
E1	26.59	102.59	25.65	1.11
	26.01			
	24.05			
	25.95			
E2	28.53	106.00	26.50	1.79
	25.63			
	24.50			
	27.35			
E3	26.78	106.49	26.62	1.43
	25.12			
	26.07			
	28.52			
E4	26.82	106.98	26.74	0.71
	25.84			
	26.75			
	27.57			

Descriptive Statistics

Dependent Variable: FI

treat	Mean	Std. Deviation	N
A	25.8625	1.23462	4
B	25.6500	1.10502	4
C	26.5025	1.78888	4
D	26.6225	1.43621	4
E	26.7450	.70835	4
Total	26.2765	1.24280	20

Levene's Test of Equality of Error Variances^a

Dependent Variable: FI

F	df1	df2	Sig.
1.459	4	15	.264

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + EMsebelum + treat

Tests of Between-Subjects Effects

Dependent Variable: FI

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4.641 ^a	5	.928	.526	.753
Intercept	315.734	1	315.734	178.918	.000
EMsebelum	.824	1	.824	.467	.506
treat	4.061	4	1.015	.575	.685
Error	24.706	14	1.765		
Total	13838.436	20			
Corrected Total	29.346	19			

a. R Squared = .158 (Adjusted R Squared = -.143)

Hasil ancova menunjukkan hasil tidak berbeda nyata sehingga dilanjut anova

FI

Duncan

Treat	N	Subset for alpha = 0.05
		1
b	4	25.6500
a	4	25.8625
c	4	26.5025
d	4	26.6225
e	4	26.7450
Sig.		.299

Means for groups in homogeneous subsets are displayed.

ANOVA

FI

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.817	4	.954	.561	.695
Within Groups	25.530	15	1.702		
Total	29.346	19			

Lampiran 10. Analisa statistik pengaruh pemberian enzim β -mannanase dengan level energi yang berbeda terhadap HDP

Kelompok	HDP (%)			
	Rata-rata	Jumlah	Rataan	SD
E0	57.80	223.25	55.81	7.76
	64.15			
	55.85			
	45.45			
E1	53.66	250.95	62.74	7.46
	69.38			
	59.62			
	68.29			
E2	52.22	248.68	62.17	7.20
	66.53			
	68.29			
	61.64			
E3	48.78	240.03	60.01	8.06
	65.83			
	65.91			
	59.52			
E4	57.00	257.14	64.29	8.04
	68.05			
	58.29			
	73.80			

Descriptive Statistics

Dependent Variable: HDP

treat	Mean	Std. Deviation	N
A	55.8125	7.76417	4
B	62.7375	7.46264	4
C	62.1700	7.20526	4
D	60.0100	8.06299	4
E	64.2850	8.03579	4
Total	61.0030	7.48578	20

Levene's Test of Equality of Error Variances^a

Dependent Variable: HDP

F	df1	df2	Sig.
.103	4	15	.980

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + EMsebelum + treat

Tests of Between-Subjects Effects

Dependent Variable: HDP

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	240.051 ^a	5	48.010	.815	.558
Intercept	962.177	1	962.177	16.335	.001
EMsebelum	67.774	1	67.774	1.151	.302
treat	116.317	4	29.079	.494	.741
Error	824.651	14	58.904		
Total	75492.021	20			
Corrected Total	1064.701	19			

a. R Squared = .225 (Adjusted R Squared = -.051)

Hasil ancova menunjukkan tidak berbeda nyata sehingga dilanjut anova

HDP

Duncan

Treat	N	Subset for alpha = 0.05
		1
a	4	55.8125
d	4	60.0100
c	4	62.1700
b	4	62.7375
e	4	64.2850
Sig.		.179

Means for groups in homogeneous subsets are displayed.

ANOVA

HDP

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	172.277	4	43.069	.724	.589
Within Groups	892.424	15	59.495		
Total	1064.701	19			

Lampiran 11. Analisa statistik pengaruh pemberian enzim β -mannanase dengan level energi yang berbeda terhadap berat telur/butir

Berat Telur/Butir (g/butir)				
Kelompok	Rata-rata	Jumlah	Rataan	SD
E0	10.29	41.75	10.44	0.34
	10.33			
	10.94			
	10.19			
E1	9.68	41.47	10.37	0.48
	10.44			
	10.56			
	10.80			
E2	9.56	41.37	10.34	0.56
	10.89			
	10.50			
	10.43			
E3	9.93	41.30	10.33	0.52
	9.92			
	10.45			
	11.01			
E4	9.77	40.92	10.23	0.37
	10.30			
	10.16			
	10.68			

Descriptive Statistics

Dependent Variable: BB_Telur

treat	Mean	Std. Deviation	N
A	10.4375	.34013	4
B	10.3700	.48374	4
C	10.3450	.56110	4
D	10.3275	.51797	4
E	10.1675	.47843	4
Total	10.3295	.43796	20

Levene's Test of Equality of Error Variances^a

Dependent Variable: BB_Telur

F	df1	df2	Sig.
.205	4	15	.932

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + EMsebelum + treat

Tests of Between-Subjects Effects

Dependent Variable: BB_Telur

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.524 ^a	5	.105	.470	.792
Intercept	36.411	1	36.411	163.368	.000
EMsebelum	.365	1	.365	1.637	.222
treat	.361	4	.090	.405	.802
Error	3.120	14	.223		
Total	2137.616	20			
Corrected Total	3.644	19			

a. R Squared = .144 (Adjusted R Squared = -.162)

Hasil ancova menunjukkan tidak berbeda nyata sehingga dilanjut anova

BB_Telur

Duncan

Treat	N	Subset for alpha = 0.05
		1
e	4	10.1675
d	4	10.3275
c	4	10.3450
b	4	10.3700
a	4	10.4375
Sig.		.484

Means for groups in homogeneous subsets are displayed.

ANOVA

BB_Telur

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.159	4	.040	.171	.950
Within Groups	3.485	15	.232		
Total	3.644	19			

Lampiran 12. Analisa statistik pengaruh pemberian enzim β -mannanase dengan level energi yang berbeda terhadap *egg mass*

Kelompok	Egg Mass (g/ekor/hari)			
	Rata-rata	Jumlah	Rataan	SD
E0	5.97	23.39	5.85	0.82
	6.61			
	6.13			
	4.68			
E1	5.22	26.15	6.54	1.00
	7.24			
	6.30			
	7.39			
E2	5.12	26.12	6.53	0.98
	7.25			
	7.15			
	6.60			
E3	5.23	25.18	6.30	0.73
	6.54			
	6.89			
	6.53			
E4	5.76	26.56	6.64	0.99
	7.03			
	5.92			
	7.86			

Descriptive Statistics

Dependent Variable:EM

treat	Mean	Std. Deviation	N
A	5.8475	.82447	4
B	6.5375	1.00208	4
C	6.5300	.98248	4
D	6.2975	.73109	4
E	6.6425	.98882	4
Total	6.3710	.86173	20

Levene's Test of Equality of Error Variances^a

Dependent Variable:EM

F	df1	df2	Sig.
.730	4	15	.586

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + EMsebelum + treat

Tests of Between-Subjects Effects

Dependent Variable:EM

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2.694 ^a	5	.539	.661	.659
Intercept	9.408	1	9.408	11.538	.004
EMsebelum	1.069	1	1.069	1.311	.271
treat	1.151	4	.288	.353	.838
Error	11.415	14	.815		
Total	825.902	20			
Corrected Total	14.109	19			

a. R Squared = .191 (Adjusted R Squared = -.098)

Hasil ancova menunjukkan tidak berbeda nyata sehingga dilanjut anova

EM

Duncan

Treat	N	Subset for alpha = 0.05
		1
a	4	5.8475
d	4	6.2975
c	4	6.5300
b	4	6.5375
e	4	6.6425
Sig.		.282

Means for groups in homogeneous subsets are displayed.

ANOVA

EM

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.625	4	.406	.488	.745
Within Groups	12.484	15	.832		
Total	14.109	19			

Lampiran 13. Analisa statistik pengaruh pemberian enzim β -mannanase dengan level energi yang berbeda terhadap *FCR*

Kelompok	FCR			
	Rata-rata	Jumlah	Rataan	SD
E0	4.66	20.13	5.03	1.41
	3.84			
	4.55			
	7.08			
	5.64			
E1	3.78	17.11	4.28	0.92
	4.03			
	3.66			
	6.11			
	3.64			
E2	3.64	17.72	4.43	1.19
	3.55			
	4.42			
	5.61			
	3.98			
E3	3.93	18.63	4.66	0.84
	5.11			
	5.09			
	3.79			
	4.82			
E4	3.63	17.33	4.33	0.73

Descriptive Statistics

Dependent Variable:FCR

treat	Mean	Std. Deviation	N
A	5.0225	1.39727	4
B	4.2000	.90565	4
C	4.3475	1.16038	4
D	4.5675	.82577	4
E	4.2500	.71791	4
Total	4.4775	.96660	20

Levene's Test of Equality of Error Variances^a

Dependent Variable:FCR

F	df1	df2	Sig.
.646	4	15	.638

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + EMsebelum + treat

Tests of Between-Subjects Effects

Dependent Variable:FCR

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2.871 ^a	5	.574	.540	.743
Intercept	15.190	1	15.190	14.291	.002
EMsebelum	1.068	1	1.068	1.005	.333
treat	1.195	4	.299	.281	.885
Error	14.881	14	1.063		
Total	418.712	20			
Corrected Total	17.752	19			

a. R Squared = .162 (Adjusted R Squared = -.138)

Hasil ancova menunjukkan tidak berbeda nyata sehingga dilanjut anova

FCR

Duncan

Treat	N	Subset for alpha = 0.05
		1
b	4	4.2000
e	4	4.2500
c	4	4.3475
d	4	4.5675
a	4	5.0225
Sig.		.323

Means for groups in homogeneous subsets are displayed.

ANOVA

FCR

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.803	4	.451	.424	.789
Within Groups	15.949	15	1.063		
Total	17.752	19			

Lampiran 14. Analisa statistik pengaruh pemberian enzim β -mannanase dengan level energi yang berbeda terhadap IOFC

Kelompok	IOFC (Rp/ekor/hari)			
	Rata-rata	Jumlah	Rataan	SD
E0	46.48	180.03	45.01	31.03
	78.01			
	52.29			
	3.25			
E1	23.35	276.63	69.16	32.20
	89.02			
	70.26			
	94.00			
E2	12.03	265.14	66.28	38.89
	92.93			
	95.95			
	64.22			
E3	26.24	240.62	60.15	24.73
	75.34			
	81.32			
	57.71			
E4	43.61	285.15	71.29	29.81
	87.89			
	48.87			
	104.77			

Descriptive Statistics

Dependent Variable: IOFC

Pa...	Mean	Std. Deviation	N
A	45.0075	31.02718	4
B	69.1575	32.20358	4
C	66.2825	38.89232	4
D	60.1525	24.73019	4
E	71.2850	29.80665	4
Total	62.3770	29.75875	20

Tests of Between-Subjects Effects

Dependent Variable: IOFC

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3158.696 ^a	5	631.739	.647	.668
Intercept	11.704	1	11.704	.012	.914
Egg_Mass_sebelum	1369.782	1	1369.782	1.403	.256
Pakan	1144.589	4	286.147	.293	.878
Error	13667.380	14	976.241		
Total	94643.878	20			
Corrected Total	16826.075	19			

a. R Squared = .188 (Adjusted R Squared = -.102)

Hasil ancova menunjukkan tidak berbeda nyata sehingga dilanjut anova

ANOVA

IOFC

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1788.914	4	447.229	.446	.774
Within Groups	15037.161	15	1002.477		
Total	16826.075	19			

Post Hoc

Homogeneous

IOFC

Duncan

Pakan	N	Subset for alpha = 0.05
		1
A	4	45.0075
D	4	60.1525
C	4	66.2825
B	4	69.1575
E	4	71.2850
Sig.		.304

Means for groups in homogeneous subsets are displayed.

Lampiran 15. Analisa statistik pengaruh pemberian enzim β -mannanase dengan level energi yang berbeda terhadap panjang vili usus.

Kelompok	Panjang vili (μm)			
	Rata-rata	Jumlah	Rataan	SD
E0	199.15	816.28	204.07	31.86
	223.00			
	232.88			
E1	161.25	848.57	212.14	30.40
	168.19			
	223.17			
	219.18			
E2	238.03	931.66	232.91	13.06
	215.11			
	234.70			
	246.57			
E3	235.27	937.33	234.33	40.30
	293.76			
	220.27			
	219.30			
E4	204.01	940.06	235.01	49.68
	248.01			
	169.38			
	289.12			
	233.55			

Descriptive Statistics

Dependent Variable: Panjang_Vili

Pa...	Mean	Std. Deviation	N
A	2.0407E2	31.86492	4
B	2.1214E2	30.40349	4
C	2.3291E2	13.06661	4
D	2.3433E2	40.31051	4
E	2.3251E2	50.03718	4
Total	2.2319E2	33.94277	20

Levene's Test of Equality of Error Variances^a

Dependent Variable: Panjang_Vili

F	df1	df2	Sig.
.987	4	15	.444

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Egg_Mass_Sebelum + Pakan

Tests of Between-Subjects Effects

Dependent Variable: Panjang_Vili

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3211.046 ^a	5	642.209	.481	.785
Intercept	22328.294	1	22328.294	16.735	.001
Egg_Mass_Sebelum	38.344	1	38.344	.029	.868
Pakan	3206.071	4	801.518	.601	.668
Error	18679.073	14	1334.220		
Total	1018196.888	20			
Corrected Total	21890.119	19			

a. R Squared = .147 (Adjusted R Squared = -.158)

Hasil ancova menunjukkan tidak berbeda nyata sehingga dilanjut anova

Terjadi bias antara hasil ancova kelompok E yaitu 232,5 dengan kelompok E anova 235,0 hal ini dikarenakan pada analisa koefisien keragaman (ancova) jumlah replikasi harus disamakan dengan jumlah replikasi covariat yaitu *egg mass*.

ANOVA

Panjang_Vili

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	33135.050	4	8283.762	1.283	.278
Within Groups	1226712.822	190	6456.383		
Total	1259847.872	194			

Post Hoc

Homogeneous

Panjang_Vili

Duncan

Paka n	N	Subset for alpha = 0.05
		1
A	40	204.0695
B	40	212.1420
C	40	232.9142
D	40	234.3330
E	35	235.0086
Sig.		.134

Means for groups in homogeneous subsets are displayed.

Lampiran 16. Analisa statistik pengaruh pemberian enzim β -mannanase dengan level energi yang berbeda terhadap jumlah sel goblet.

Jumlah sel goblet				
Kelompok	Rata-rata	Jumlah	Rataan	SD
E0	32.70	143.30	35.83	4.33
	41.40			
	37.10			
	32.10			
E1	10.00	103.40	25.85	11.64
	33.70			
	24.30			
	35.40			
E2	41.20	174.90	43.73	13.11
	45.50			
	60.00			
	28.20			
E3	36.90	223.80	55.95	13.63
	57.90			
	69.20			
	59.80			
E4	21.40	85.40	21.35	3.56
	17.10			
	21.10			
	25.80			

Descriptive Statistics

Dependent Variable: Gobet

Pa...	Mean	Std. Deviation	N
A	35.8250	4.33388	4
B	25.8500	11.63973	4
C	43.7250	13.10760	4
D	55.9500	13.62706	4
E	21.3500	3.55575	4
Total	36.5400	15.67571	20

Levene's Test of Equality of Error Variances^a

Dependent Variable: Gobet

F	df1	df2	Sig.
1.672	4	15	.209

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Egg_Mass_sebelum + Pakan

Tests of Between-Subjects Effects

Dependent Variable: Gobet

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3153.232 ^a	5	630.646	5.825	.004
Intercept	254.273	1	254.273	2.349	.148
Egg_Mass_sebelum	57.649	1	57.649	.533	.478
Pakan	3078.283	4	769.571	7.109	.002
Error	1515.596	14	108.257		
Total	31372.260	20			
Corrected Total	4668.828	19			

a. R Squared = .675 (Adjusted R Squared = .559)

Hasil ancova menunjukkan tidak berbeda nyata sehingga dilanjut anova

ANOVA

Gobet

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	30955.830	4	7738.958	24.307	.000
Within Groups	62085.850	195	318.389		
Total	93041.680	199			

Post Hoc Tests

Homogeneous Subsets

Gobet

Duncan^a

Pakan	N	Subset for alpha = 0.05			
		1	2	3	4
E	40	21.3500			
B	40	25.8500			
A	40		35.8250		
C	40			43.7250	
D	40				55.9500
Sig.		.261	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 40.000.