

LAMPIRAN

Lampiran 1. Deskriptif Data Penelitian

Kode Sampel	BK (%)	BO (%BK)	PK (%BK)	LK (%BK)	SK (%BK)	BETN** (%BK)	KCBK (%BK)	KCB0 (%BK)	VFA (Mm)
P0.1	44.38	87.08	12.66	9.10	17.59	47.73	38.42	32.60	75.66
P0.2	47.89	86.90	13.85	8.80	17.30	46.95	38.96	33.19	68.10
P0.3	49.20	86.93	13.86	8.55	16.95	47.56	38.59	32.96	86.23
P0.4	59.33	87.65	11.75	5.97	14.35	55.75	36.19	31.28	62.62
P1.1	65.13	87.89	11.69	7.44	15.25	53.50	37.58	32.72	76.57
P1.2	68.79	87.95	11.35	7.21	15.39	54.00	37.29	31.96	70.17
P1.3	65.72	88.08	12.33	6.55	15.48	53.72	36.31	30.62	64.68
P1.4	59.33	87.65	11.75	5.97	14.35	55.75	38.59	32.96	86.23
P2.1	70.99	87.57	11.12	5.17	14.37	56.91	36.84	32.03	59.80
P2.2	68.44	87.65	12.04	4.79	14.04	56.79	36.74	31.99	54.84
P2.3	65.45	87.55	12.07	4.39	13.69	57.40	35.66	31.90	44.23
P2.4	59.33	87.65	11.75	5.97	14.35	55.75	38.59	32.96	86.23
P3.1	59.87	88.47	9.94	2.82	9.51	66.20	33.48	28.97	49.24
P3.2	53.83	88.02	9.96	3.10	11.46	63.51	32.38	28.85	51.11
P3.3	52.32	87.72	10.15	3.76	11.22	62.59	32.06	27.53	50.82
P3.4	59.33	87.65	11.75	5.97	14.35	55.75	38.59	32.96	86.23

Lampiran 2. Olah Data Penelitian

1. Pengujian pencernaan bahan kering (KCBK)

KCBK					
Ulangan	Perlakuan				Rataan
	P0	P1	P2	P3	
1	38.42	37.58	36.84	33.48	36.58
2	38.96	37.29	36.74	32.38	36.34
3	38.59	36.31	35.66	32.06	35.65
4	36.19	38.59	38.59	38.59	37.99
Total	152.15	149.76	147.82	136.51	146.56
Rataan	38.04	37.44	36.96	34.13	36.64

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UNIANOVA KCBK_1 BY PERLAKUAN
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Univariate Analysis of Variance

Notes

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	Cases Used	Statistics are based on all cases with valid data for all variables in the model. UNIANOVA KCBK_1 BY Perlakuan /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /POSTHOC=Perlakuan(DUNCAN) /PLOT=PROFILE(Perlakuan) /EMMEANS=TABLES(Perlakuan) /PRINT=HOMOGENEITYDESCRIPTIVE /CRITERIA=ALPHA(.05) /DESIGN=Perlakuan.
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[DataSet1] D:\PDP\Untitledprok dan in vitro.sav

Between-Subjects Factors

		N
Perlakuan	P0	4
	P1	4
	P2	4
	P3	4

Descriptive Statistics

Dependent Variable: SMEAN(KCBK)

Perlakuan	Mean	Std. Deviation	N
P0	38,0406	1,25254	4
P1	36,8431	,69527	4
P2	36,3581	,54554	4
P3	33,5281	1,87748	4
Total	36,1925	2,02460	16

Levene's Test of Equality of Error Variances^a

Dependent Variable: SMEAN(KCBK)

F	df1	df2	Sig.
1,534	3	12	,256

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

a. Design: Intercept + Perlakuan

Tests of Between-Subjects Effects

Dependent Variable: SMEAN(KCBK)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	43,861 ^a	3	14,620	9,955	,001
Intercept	20958,353	1	20958,353	14269,998	,000
Perlakuan	43,861	3	14,620	9,955	,001
Error	17,624	12	1,469		
Total	21019,838	16			
Corrected Total	61,485	15			

a. R Squared = ,713 (Adjusted R Squared = ,642)

Estimated Marginal Means

Perlakuan

Dependent Variable: SMEAN(KCBK)

Perlakuan	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
P0	38,041	,606	36,720	39,361
P1	36,843	,606	35,523	38,163
P2	36,358	,606	35,038	37,678
P3	33,528	,606	32,208	34,848

Post Hoc Tests

Perlakuan

Homogeneous Subsets

SMEAN(KCBK)

Duncan^{a,b}

Perlakuan	N	Subset	
		1	2
P3	4	33,5281	
P2	4		36,3581
P1	4		36,8431
P0	4		38,0406
Sig.		1,000	,086

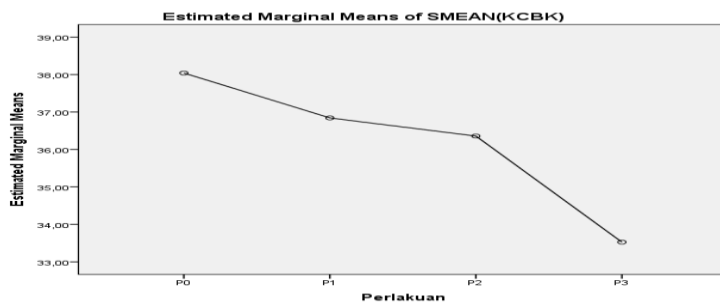
Means for groups in homogeneous subsets are displayed. Based on observed means.

The error term is Mean Square(Error) = 1,469.

a. Uses Harmonic Mean Sample Size = 4,000.

b. Alpha = ,05.

Profile Plots



2. Pengujian pencernaan bahan organik (KCBO)

KCBO					
Ulangan	Perlakuan				Rataan
	P0	P1	P2	P3	
1	32.60	32.72	32.03	28.97	31.58
2	33.19	31.96	31.99	28.85	31.50
3	32.96	30.62	31.90	27.53	30.75
4	31.28	32.96	32.96	32.96	32.54
Total	130.03	128.26	128.89	118.31	126.37
Rataan	32.51	32.07	32.22	29.58	31.59

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UNIANOVA KCBO_1 BY Perlakuan
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Univariate Analysis of Variance

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.	
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.	
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	/EMMEANS=TABLES(Perlakuan)		
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[DataSet1] D:\PDP\Untitledprok dan in vitro.sav

Between-Subjects Factors

		N
Perlakuan	P0	4
	P1	4
	P2	4
	P3	4

Descriptive Statistics

Dependent Variable: SMEAN(KCBO)

Perlakuan	Mean	Std. Deviation	N
P0	32,5067	,85519	4
P1	31,6442	,90206	4
P2	31,7992	,35255	4
P3	29,1567	1,55663	4
Total	31,2767	1,59036	16

Levene's Test of Equality of Error Variances^a

Dependent Variable: SMEAN(KCBO)

F	df1	df2	Sig.
1,270	3	12	,329

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

a. Design: Intercept + Perlakuan

Tests of Between-Subjects Effects
Dependent Variable: SMEAN(KCBO)

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Corrected Model	25,661 ^a	3	8,554	8,361	,003
Intercept	15651,678	1	15651,678	15298,018	,000
Perlakuan	25,661	3	8,554	8,361	,003
Error	12,277	12	1,023		
Total	15689,617	16			
Corrected Total	37,939	15			

a. R Squared = ,676 (Adjusted R Squared = ,595)

Estimated Marginal Means

Perlakuan

Dependent Variable: SMEAN(KCBO)

Perlakuan	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
P0	32,507	,506	31,405	33,609
P1	31,644	,506	30,542	32,746
P2	31,799	,506	30,697	32,901
P3	29,157	,506	28,055	30,259

Post Hoc Tests

Perlakuan

Homogeneous Subsets

SMEAN(KCBO)

Duncan^{a,b}

Perlakuan	N	Subset	
		1	2
P3	4	29,1567	
P1	4		31,6442
P2	4		31,7992
P0	4		32,5067
Sig.		1,000	,274

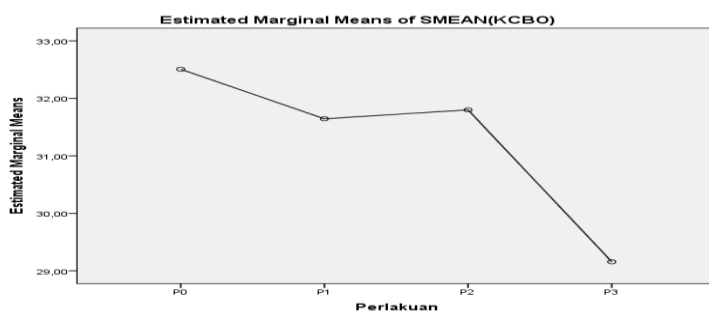
Means for groups in homogeneous subsets are displayed. Based on observed means.

The error term is Mean Square(Error) = 1,023.

a. Uses Harmonic Mean Sample Size = 4,000.

b. Alpha = ,05.

Profile Plots



3. Pengaruh perlakuan terhadap konsentrasi VFA

VFA					
Ulangan	Perlakuan				Rataan
	P0	P1	P2	P3	
1	75.66	76.57	59.80	49.24	65.32
2	68.10	70.17	54.84	51.11	61.05
3	86.23	64.68	44.23	50.82	61.49
4	62.62	86.23	86.23	86.23	80.33
Total	292.61	297.65	245.09	237.40	268.18
Rataan	73.15	74.41	61.27	59.35	67.05

UNIANOVA VFA_1 BY Perlakuan
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Univariate Analysis of Variance**Notes**

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
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[DataSet1] D:\PDP\Untitledprok dan in vitro.sav

Between-Subjects Factors

		N
Perlakuan	P0	4
	P1	4
	P2	4
	P3	4

Descriptive Statistics

Dependent Variable: SMEAN(VFA)

Perlakuan	Mean	Std. Deviation	N
P0	73,1527	10,22664	4
P1	68,5102	6,24688	4
P2	55,3727	8,09485	4
P3	53,4477	6,17038	4
Total	62,6208	11,16772	16

Levene's Test of Equality of Error Variances^a

Dependent Variable: SMEAN(VFA)

F	df1	df2	Sig.
,550	3	12	,657

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

a. Design: Intercept + Perlakuan

Tests of Between-Subjects Effects

Dependent Variable: SMEAN(VFA)

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Corrected Model	1129,147 ^a	3	376,382	6,090	,009
Intercept	62741,900	1	62741,900	1015,209	,000
Perlakuan	1129,147	3	376,382	6,090	,009
Error	741,623	12	61,802		
Total	64612,670	16			
Corrected Total	1870,770	15			

a. R Squared = ,604 (Adjusted R Squared = ,504)

Estimated Marginal Means

Perlakuan

Dependent Variable: SMEAN(VFA)

Perlakuan	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
P0	73,153	3,931	64,588	81,717
P1	68,510	3,931	59,946	77,074
P2	55,373	3,931	46,808	63,937
P3	53,448	3,931	44,883	62,012

Post Hoc Tests

Perlakuan

Homogeneous Subsets

SMEAN(VFA)
Duncan^{a,b}

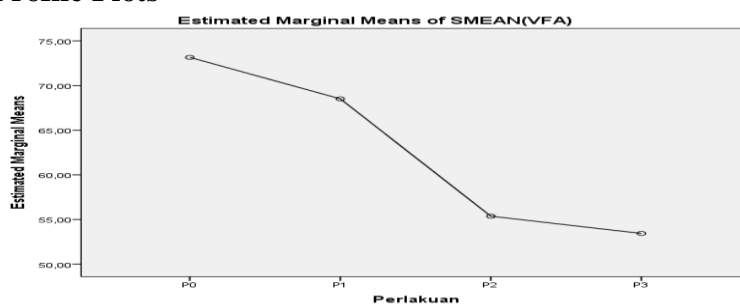
Perlakuan	N	Subset	
		1	2
P3	4	53,4477	68,5102 73,1527 ,420
P2	4	55,3727	
P1	4		
P0	4		
Sig.		,735	

Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = 61,802.

a. Uses Harmonic Mean Sample Size = 4,000.

b. Alpha = ,05.

Profile Plots



4.Data Analisis Prosimat Silase Limbah Daun Ubi Kayu

1) Berat Kasar

Ulangan	Perlakuan				Rataan
	P0	P1	P2	P3	
1	44,38	65,13	70,99	59,87	60,09
2	47,89	68,79	68,44	53,83	59,74
3	49,20	65,72	65,45	52,32	58,17
4	59,33	59,33	59,33	59,33	59,33
Total	200,80	258,96	264,21	225,35	237,33
Rataan	50,20 ^d ±6,41	64,74 ^b ±3,94	66,05 ^a ±5,01	56,34 ^c ±3,82	59,33

Keterangan : Nilai dengan huruf superscrip yang berbeda pada kolom yang sama menunjukkan pengaruh yang nyata (P<0,05).

2) Bahan Organik

Ulangan	Perlakuan				Rataan
	P0	P1	P2	P3	
1	87.08	87.89	87.57	88.47	87.75
2	86.90	87.95	87.65	88.02	87.63
3	86.93	88.08	87.55	87.72	87.57
4	87.65	87.65	87.65	87.65	87.65
Total	348.56	351.58	350.41	351.86	350.60
Rataan	87.14 ^d ±0,34	87.89 ^b ±0,17	87.60 ^c ±0,05	87.96 ^a ±0,37	87.65

keterangan : Nilai dengan huruf superscrip yang berbeda pada kolom yang sama menunjukkan pengaruh yang nyata (P<0,05).

3) Protein Kasar

Ulangan	Perlakuan				Rataan
	P0	P1	P2	P3	
1	12.66	11.69	11.12	9.94	11.35
2	13.85	11.35	12.04	9.96	11.80
3	13.86	12.33	12.07	10.15	12.10
4	11.75	11.75	11.75	11.75	11.75
Total	52.12	47.12	46.98	41.80	47.01
Rataan	13.03 ^a ±1,02	11.78 ^b ±0,40	11.75 ^c ±0,44	10.45 ^d ±0,87	11.75

Keterangan : Nilai dengan huruf superscrip yang berbeda pada kolom yang sama menunjukkan pengaruh yang nyata (P<0,05).

4) Lemak Kasar

Perlakuan	Ulangan				Rataan
	1	2	3	4	
P0	9,10	7,44	5,17	2,82	6,13
P1	8,80	7,21	4,79	3,10	5,97
P2	8,55	6,55	4,39	3,76	5,81
P3	5,97	5,97	5,97	5,97	5,97
Total	32,43	27,18	20,32	15,65	23,89
Rataan	8,11 ^a ±1,43	6,79 ^b ±0,66	5,08 ^c ±0,67	3,91 ^d ±1,42	5,97

keterangan : Nilai dengan huruf superscrip yang berbeda pada kolom yang sama menunjukkan pengaruh yang nyata (P<0,05).

5) Serat Kasar

Perlakuan	Ulangan				Rataan
	1	2	3	4	
P0	17,59	15,25	14,37	9,51	14,18
P1	17,30	15,39	14,04	11,46	14,54
P2	16,95	15,48	13,69	11,22	14,33
P3	14,35	14,35	14,35	14,35	14,35
Total	66,19	60,47	56,44	46,53	57,41
Rataan	16,55 ^a ±1,48	15,12 ^b ±0,51	14,11 ^c ±0,32	11,63 ^d ±2,00	14,35

Keterangan : Nilai dengan huruf superscrip yang berbeda pada kolom yang sama menunjukkan pengaruh yang nyata (P<0,05).

6) Kandungan BETN

Perlakuan	Ulangan				Rataan
	1	2	3	4	
P0	47,73	53,50	56,91	66,20	56,09
P1	46,95	54,00	56,79	63,51	55,31
P2	47,56	53,72	57,40	62,59	55,32
P3	55,75	55,75	55,75	55,75	55,75
Total	197,99	216,97	226,84	248,05	222,47
Rataan	49,50 ^{±d} 4,09	54,24 ^c ±0,93	56,71 ^b ±0,77	62,01 ^a ±4,53	55,62

Keterangan : Nilai dengan huruf superscrip yang berbeda pada kolom yang sama menunjukkan pengaruh yang nyata (P<0,05).

7) Data Hasil Analisis Proksimat Silase Limbah Daun Ubi Kayu

Perlakuan	Kandungan Nutrisi Silase Limbah Daun Ubi Kayu (%)					
	BK (%)	BO (%)	PK (%)	LK (%)	SK (%)	BETN (%)
P0	50,20±6,41 ^d	87.14±0,34 ^d	13.03±1,02 ^a	8,11±1,43 ^a	16,55±1,48 ^a	49,50±4,09 ^d
P1	64,74±3,94 ^b	87.89±0,17 ^b	11.78±0,40 ^b	6,79±0,66 ^b	15,12±0,51 ^b	54,24±0,93 ^c
P2	66,05±5,01 ^a	87.60±0,05 ^a	11.75±0,44 ^c	5,08±0,67 ^c	14,11±0,32 ^c	56,71±0,77 ^b
P3	56,34±3,82 ^c	87.60±0,05 ^c	10.45±0,87 ^d	3,91±1,42 ^d	11,63±2,00 ^d	62,01±4,53 ^a

Lampiran 3 Dokumentasi Penelitian
Limbah daun ubi kayu

Hasil cacahan limbah daun ubi kayu



Penimbangan limbah daun ubi kayu



pencacahan limbah daun ubi kayu



pencampuran limbah daun ubi kayu dengan tepung porang



Penyimpanan limbah daun ubi kayu didalam toples



DAFTAR RIWAYAT HIDUP



PAULUS A. LALISUK lahir di Oelnitep pada tanggal 27 desember 1997, Anak keempat dari tujuh bersaudara. Penulis lahir dari pasangan suami istri Bapak Daniel Lalisuk dan Maria Imaculata Tuname. Penulis menyelesaikan Pendidikan Dasar di SDN Oelnitep Kecamatan kota Kefamenanu Kabupaten Timor Tengah Utara pada tahun 2010 dan melanjutkan Pendidikan Menengah Pertama di SMP Negeri Fatumfaun pada tahun 2013 lalu pada Tahun 2016. Penulis menyelesaikan Pendidikan Menengah Atas di SMA N 2 Kefamenanu dan selanjutnya Penulis melanjutkan Pendidikan Jenjang (S1) di Universitas Timor (Unimor) pada Fakultas Pertanian Program Studi Peternakan hingga tersusunNya Skripsi ini dengan motto “CEPAT ATAU LAMBAT PROSES DAN TITIK ITU ADA”

Kefamenanu, Januari 2022

Paulus A. Lalisuk