LAMPIRAN

Lampiran 1. Data Pengukuran Kualitas Air Budidaya Ikan Nila

Perlakuan	Parameter	MINGGU 1		MINGGU 2		MINGGU 3		MINGGU 4	
		Pagi	Sore	Pagi	Sore	Pagi	Sore	Pagi	Sore
A1	Suhu °C	27.6	28.2	27.6	28.1	28.6	27.8	28	27.9
	pH	7.15	6.7	8.08	7.9	7.70	7.6	7.55	7.34
	DO (mg/L)	8.1	7.8	6.7	8	7.7	6.6	6.9	7.6
A2	Suhu °C	28.7	28	27	27.8	28	27.9	28.2	28
	pH	7.72	7.1	7.65	7.5	8.2	7.7	7.75	7.7
	DO (mg/L)	7.7	7.2	8.5	8	6.6	6.2	8.2	7.2
A3	Suhu °C	27.8	27.8	27.9	28	28	27.8	28.4	28
	pH	7.45	27.9	7.68	7.5	8.07	7.6	7.6	7.8
	DO (mg/L)	8.1	6.6	6.6	7.6	7.5	6.5	8.3	7.2
A4	Suhu °C	27.4	28.2	27.9	27.9	28.2	27.5	27.6	28
	pH	7.40	7.5	6.9	7.3	7.2	7.6	7.74	7.3
	DO (mg/L)	8.1	8	7.7	8.3	7.6	6.45	7.6	8
A5	Suhu °C	28.2	27.9	28	27.8	27.4	27.8	27.8	28.3
	pH	7.3	7.3	7.75	7.1	7.74	7.4	8.08	7.2
	DO (mg/L)	8.5	8	7.6	8	8.08	6.56	6.7	8.5
B1	Suhu °C	28	28	27.8	28.1	28	28	28	27.8
	pH	7.2	6.7	7.55	7.3	7.4	7.23	7.74	7.7
	DO (mg/L)	7.9	8	7.4	8.5	6.4	8.3	8.35	6.35
B2	Suhu °C	28.4	28	28.2	28.3	27	27.9	28	27.6
	pH	7.6	7.3	8.07	7.8	8.10	7.34	7.30	7.6
	DO (mg/L)	8	6.6	7.5	8	6.9	7.5	6.6	6.45
B3	Suhu °C	27.6	28.2	27.9	28	28.2	28	28	27.4
	pH	7.4	7.2	7.7	7.2	7.35	7.6	7.65	7.8
	DO (mg/L)	8.1	8	6.3	8.1	7.7	8.2	6,,9	6.3
B4	Suhu °C	27.8	28.1	27.8	27	28	28.1	28	27.8
	pH	8.03	7.6	7.6	7.4	7.70	7.2	7.05	7.6
	DO (mg/L)	6.9	6.45	7.5	6.3	6.7	7.5	6.4	6.4
B5	Suhu °C	28.2	27.9	28	28.3	27.6	27.5	27.5	27.6
	pH	7.74	7.7	7.33	7.4	8.08	7.3	7.72	77.5
	DO (mg/L)	7.5	6.2	6.9	6.8	6,5	7,6	8.5	6.5
C1	Suhu °C	27.8	27.8	27	7.9	28	27.8	28.2	27.5
	pH	7.5	7.4	7.73	7.1	7.33	7.5	6.9	7.6
	DO (mg/L)	7.9	6.5	8.2	8.6	6.9	6.5	7.4	6.25
C2	Suhu °C	28	27.8	27.8	28.1	27.8	27.4	28.6	27.9

Perlakuan	Parameter	MINGGU 1		MINGGU 2		MINGGU 3		MINGGU 4	
		Pagi	Sore	Pagi	Sore	Pagi	Sore	Pagi	Sore
	pH	8.06	7.5	7.6	7.3	8.10	7.4	7.20	7.4
	DO (mg/L)	6.6	6.25	7.7	8	7.7	6.35	6.4	6.4
C3	Suhu °C	28	27.4	28	28.3	28.4	27.5	28.4	28
	pH	7.75	7.8	8.02	7.4	7.05	7.7	8.10	7.23
	DO (mg/L)	8.02	7.4	8.5	8	8.1	6.45	8.2	8
C4	Suhu °C	27.8	27.8	28	27.9	28	28.1	28	28
	pH	7.7	7.4	7.75	7.34	7.3	7.2	7.75	7.9
	DO (mg/L)	8.2	6.5	8.1	7.6	7.3	8.3	6.9	8
C5	Suhu °C	28	27.9	28.2	28.1	28	28.1	27.9	27.9
	pH	7.75	7.6	7.05	6.9	7.05	8	8.05	7.34
	DO (mg/L)	7.7	6.3	8.1	7.8	8.3	6.8	8.1	7.6

UNIVERSITAS PENDIDIKAN GANESHA
UNDIKSHA

Lampiran 2. Data Survival Rate Ikan Nila

NO	KONTROL					PAKAN + ECENG GONDOK NON FERMENTASI					PAKAN+ ECENG GONDOK FERMENTASI				
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
10	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Lampiran 3. Data Pertumbuhan Panjang dan Berat Ikan

SAMPLING AWAL														
KONTROL					TANPA FERMENTASI					FERMENTASI				
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5
2.95	3.36	4.23	2.11	2.93	3.67	3.28	3.21	2.89	3.08	3.72	3.8	3.56	3.27	3.74
2.5	3.56	3.31	2.89	3.64	3.11	2.98	3.81	3	2.56	3.08	2.96	3.35	3.09	3.49
3.31	3.71	2.83	3.34	4.24	3.06	3.56	3.65	3.76	3.78	3.22	3.31	3	2.94	2.89
2.67	2.87	3.69	3.29	3.21	3	4.11	2.78	3.07	3.22	3.56	3.17	3.08	3.37	3.9
3.54	3.21	2.21	3.42	3.74	3.08	3.31	3.11	3.67	3	3.25	3.26	3.36	3.26	3.07
SAMPLING MINGGU 1														
KONTROL					TANPA FERMENTASI					FERMENTASI				
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5
3.87	3.12	5.41	3.36	3.56	3.98	3.31	3.98	3.46	3.65	4.32	4.35	4.57	6.67	6.04
3.51	4	3.44	4.11	4.32	4.06	5.11	4.15	3.92	3.97	3.76	3.49	3.98	4.71	4.34
4.46	4.41	4.65	4.3	5.23	3.78	3.78	3.45	4.04	4.11	4.09	3.93	6.21	5.06	5.68
4	5.23	3.63	4.21	5.11	3.45	3.98	4.09	3.76	3.79	3.84	5.45	5.82	4.91	5.73
4.51	5.11	4.98	4.44	4.21	4.06	4.01	3.43	3.83	3.58	5.05	6.09	4.05	3.92	6.62
SAMPLING MINGGU 2														
KONTROL					TANPA FERMENTASI					FERMENTASI				
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5
5.51	5.91	6.31	5.09	6.07	7.12	7	6.76	7.11	6.98	7.54	7.23	7	6.77	7.25
5.78	6.49	5.48	5.55	8.2	6.78	6.82	7.15	6.43	7	6.97	8.21	5.67	7.41	8.51
6.01	7.01	6	5.11	6.22	5.22	7.22	7	5.16	6.42	5.48	5.53	8.36	8.21	7.58

6.54	5.51	5.98	6.11	6.82	7.11	5.73	5.42	5.46	8.35	7	6.43	6.16	5	8.11
7.11	6.11	7.08	6.78	5.99	6.32	6	6.94	6.24	6.11	6.53	6.24	7.13	8	6
SAMPLING MINGGU 3														
KONTROL					**TANPA FERMENTASI**					**FERMENTASI**				
A1	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**C1**	**C2**	**C3**	**C4**	**C5**
7.35	7.08	6.2	6.33	6.87	10.35	10	9.16	7.45	8.55	10.28	10.42	7.88	6.85	10.12
6.34	7.32	7.13	7.51	10.15	7.43	10.43	8.32	8.12	9.31	8.62	9.23	8.06	10.72	9.21
8	10.03	7.05	10.33	7	10.21	9.05	7.22	8.52	7.03	9.16	7.41	9.52	9.49	8.56
7.17	7.09	8.54	8.25	8.19	6.56	7.19	7.08	7	6.78	7.3	6.42	10.07	7.88	9.89
10	6	10.11	8.04	8.06	7.04	6.62	10.44	9.05	10.27	6.01	10.02	10.59	10.07	10.34
SAMPLING MINGGU 4														
KONTROL					**TANPA FERMENTASI**					**FERMENTASI**				
A1	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**C1**	**C2**	**C3**	**C4**	**C5**
11.21	15.23	12.07	13.22	11.22	10.08	13.09	9.89	16.23	13	13.43	9.57	12.37	16.37	16.5
10.2	11.07	9.34	11.07	14.08	11.32	11.26	8.76	14.09	10.06	13.25	13.42	15.07	11.45	11.26
13.02	10.43	10.43	8.04	9.88	15.43	9.08	13.23	10.16	14.22	11.32	16.02	13.27	9.56	10.06
10.05	9.16	11.03	10.04	11	10.15	15.21	11.43	10.12	11.08	10.27	15.22	9.45	11.09	14.47
12.34	10.22	14.08	10	12.04	9.78	10.33	11.04	11.22	10.87	15.98	10.06	11.05	10.74	15.06

Pertumbuhan Panjang

SAMPLING AWAL														
KONTROL					TANPA FERMENTASI					FERMENTASI				
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5
5	5	6	5	4.6	5	5.5	6	5	5.9	6	6.4	5	5	5
5	5.7	5.8	5	5	5.2	5	5	5.1	5	5.2	5	5.9	5	6
5	6	5	4.9	6.4	6	6.3	5.9	5.6	6	5	5.9	5.1	5.3	6.4
5	5.5	5.5	5.8	5.7	5.9	5	5	5	5.7	5.4	5	5	5	5
5.4	5	5	5.4	6	5.1	5.7	5.2	5	5	6	6	6	5.1	5.7
SAMPLING MINGGU 1														
KONTROL					TANPA FERMENTASI					FERMENTASI				
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5
6.4	6.6	7	5	5.67	6	6	5.9	5.7	5.8	6	6	6	7.8	7.5
6	7	5	6	6.1	5.8	7	6	5.3	5	5.9	6	5.6	6	6
6.1	7	7	6.3	7	5	5.9	6	6	5.2	5	5.9	7.5	6.4	6.4
7	6.1	5.9	6.6	6	5.4	6	6.4	5	6	6.8	7.2	6	6	7
6.5	6	6.8	6	6.6	6	5.7	6	5.9	6	6	6	6.1	6.2	6
SAMPLING MINGGU 2														
KONTROL					TANPA FERMENTASI					FERMENTASI				
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5
8	6	6	7	6.5	8	7.5	8	7	8	8	8	7	8	8
7	7	7	6.1	7	7.2	7.1	6	7	7	7.8	7	8	7	7

6.2	6	8	6.6	6.3	6.2	7	6.7	8	6.2	7.1	7.1	6.1	7	7.6
6	6.1	7.2	6.3	7	6	6.5	7	6.5	7.5	7	7.3	7.4	6.7	7
6	7	6.6	7.1	6	6.5	6	7	7.2	6	7	7	7.3	7.6	7.3
SAMPLING MINGGU 3														
KONTROL					**TANPA FERMENTASI**					**FERMENTASI**				
A1	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**C1**	**C2**	**C3**	**C4**	**C5**
7	8.5	8	8	8.5	7.4	8	8.5	8.5	8	8	8.4	7.4	7	7.5
8	7	8	7.5	7	7	8.7	7	7	7	7	7.5	8	8.4	8
8	7	7	7.7	7.5	8	8	7.5	8	7.5	7.5	8	8.2	8.6	7.8
7.5	8.5	7.4	7	7	7.9	7.5	8	7.2	7.8	7	7	7.9	8.3	8.5
7	7	8.5	8.5	8	8.5	7	8.6	7.9	8.2	7.5	8	8	7.4	8.1
SAMPLING MINGGU 4														
KONTROL					**TANPA FERMENTASI**					**FERMENTASI**				
A1	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**C1**	**C2**	**C3**	**C4**	**C5**
8.5	10	8.2	8	8.6	10	9	8.1	9.7	8	11	8	9	11.5	11
8.4	8.6	8.8	8.7	9.2	9.2	7	8.5	9	9	9	9	9	8	9
9.1	8	9	8	8	8	9.8	9.1	8.7	9.1	8.4	11.2	10	9	9
8.7	7.8	9.1	8.3	8.7	8.5	8	9	9	8	9.5	9	9.6	9	10
8	8	8.2	8	7.6	8	9.2	8	9.3	8	8.7	8.8	8	8.7	8.5

Lampiran 4. Perhitungan Pakan Ikan Nila

TOTAL BIOMASSA (g)					JUMLAH PAKAN (g/hari)				TOTAL PAKAN (g)				TOTAL PAKAN (g)
Data Awal	Minggu 1	Minggu 2	Minggu 3	Minggu 4	Hari 1-7	Hari 8-14	Hari 15-21	Hari 22-30	Minggu 1	Minggu 2	Minggu 3	Minggu 4	
44.85	61.05	92.85	116.55	170.4	2.24	3.05	4.64	5.83	15.68	21.35	32.48	52.47	121.98
50.1	65.61	74.472	112.5	112.2	2.51	3.28	3.72	5.63	17.57	22.96	26.04	50.67	117.24
48.75	61.908	92.55	117.15	170.85	2.44	3.1	4.63	5.86	17.08	21.7	32.41	52.74	123.93
45.15	61.26	85.92	121.35	157.05	2.26	3.06	4.3	6.07	15.82	21.42	30.1	54.63	121.97
53.28	67.29	99.9	120.75	174.6	2.66	3.36	5	6.04	18.62	23.52	35	54.36	131.5
47.76	57.99	97.65	124.8	170.25	2.39	2.9	4.88	6.24	16.73	20.3	34.16	56.16	127.35
51.72	60.57	98.31	121.24	176.85	2.59	3.03	4.92	6.06	18.13	21.21	34.44	54.54	128.32
49.68	53.48	99.81	126.6	163.05	2.48	2.67	4.99	6.33	17.36	18.69	34.93	56.97	127.95
49.17	57.03	91.2	126.45	185.4	2.46	2.85	4.56	6.32	17.22	19.95	31.92	56.88	125.97
46.92	57.3	104.58	125.85	177.75	2.35	2.87	5.23	6.29	16.45	20.09	36.61	56.61	129.76
50.49	63.18	100.56	124.05	179.9	2.52	3.16	5.03	6.2	17.64	22.12	35.21	55.8	130.77
49.5	69.93	94.192	130.5	192.9	2.48	3.5	4.71	6.53	17.36	24.5	32.97	58.77	133.6
49.05	73.89	102.96	138.3	171.36	2.45	3.69	5.15	6.92	17.15	25.83	36.05	62.28	141.31
47.79	70.756	106.17	126	177.6	2.39	3.54	5.31	6.3	16.73	24.78	37.17	56.7	135.38
51.27	85.23	104.86	128.7	202.05	2.56	4.26	5.24	6.44	17.92	29.82	36.68	57.96	142.38
									TOTAL				1939.41

Perhitungan pakan harian

Rumus:

$$\text{Pakan harian} = \text{Biomassa} \times \text{FR}$$

Contoh perlakuan B1:

$$\text{Pakan harian} = \text{Biomassa} \times \text{FR}$$

$$= 47{,}76 \times 5\%$$

$$= 47{,}76 \times 0{,}05 = 2{,}388 \text{ g/hari}$$

Jadi, kebutuhan pakan harian kolam B1 adalah 2,388 g/hari (dapat dibulatkan menjadi 2,39 g/hari). Sehingga, total pakan selama satu minggu adalah 16,7g.

Perhitungan komposisi pakan B1/minggu:

Pelet (85%)

16,7 x 85%

= 14,21 g pelet/minggu

Tepung Eceng Gondok (15%)

16,7×15%

= 2,51 g tepung eceng gondok/minggu

Rincian rasio campuran pakan seluruh perlakuan dapat dilihat pada lampiran berikut:

Perlakuan	**Rasio Campuran Pakan (g)**							
	Minggu 1		**Minggu 2**		**Minggu 3**		**Minggu 4**	
	Pelet	Eceng gondok	Pelet	Eceng gondok	Pelet	Eceng gondok	Pelet	Eceng gondok
A (Kontrol)	84.77	0	6.206	0	11.22	0	65.61	0
B (Non Fermentasi)	73.01	12.884	85.204	15.036	146.3	25.809	238.99	42.174
C (Fermentasi)	73.78	13.02	107.99	19.058	151.4	26.712	247.78	43.727

Lampiran 5. Uji Statitik Parameter Pertumbuhan Ikan Nila

a. Pertumbuhan Berat Mutlak Benih Ikan Nila

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
Pertumbuhan Berat Mutlak	Perlakuan A	.217	5	.200*	.948	5	.726
	Perlakuan B	.160	5	.200*	.988	5	.974
	Perlakuan C	.199	5	.200*	.971	5	.879

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Pertumbuhan Berat Mutlak	Based on Mean	.649	2	12	.540
	Based on Median	.497	2	12	.621
	Based on Median and with adjusted df	.497	2	11.186	.621
	Based on trimmed mean	.668	2	12	.531

ANOVA

Pertumbuhan Berat Mutlak

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.873	2	2.437	9.818	.003
Within Groups	2.978	12	.248		
Total	7.852	14			

Multiple Comparisons

Dependent Variable: Pertumbuhan Berat Mutlak

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
LSD	Perlakuan A	Perlakuan B	-.39000	.31508	.239	-1.0765	.2965
		Perlakuan C	-1.35600*	.31508	.001	-2.0425	-.6695
	Perlakuan B	Perlakuan A	.39000	.31508	.239	-.2965	1.0765
		Perlakuan C	-.96600*	.31508	.010	-1.6525	-.2795
	Perlakuan C	Perlakuan A	1.35600*	.31508	.001	.6695	2.0425
		Perlakuan B	.96600*	.31508	.010	.2795	1.6525

*. The mean difference is significant at the 0.05 level.

b. Pertumbuhan Panjang Mutlak Benih Ikan Nila

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
Pertumbuhan Panjang Mutlak	Perlakuan A	.225	5	.200*	.937	5	.645
	Perlakuan B	.285	5	.200*	.842	5	.171
	Perlakuan C	.196	5	.200*	.977	5	.915

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Pertumbuhan Panjang Mutlak	Based on Mean	.749	2	12	.494
	Based on Median	.294	2	12	.751
	Based on Median and with adjusted df	.294	2	7.024	.754
	Based on trimmed mean	.690	2	12	.520

ANOVA

Pertumbuhan Panjang Mutlak

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.364	2	.682	7.212	.009
Within Groups	1.134	12	.095		
Total	2.498	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Pertumbuhan Panjang Mutlak

			Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
	(I) Perlakuan	(J) Perlakuan				Lower Bound	Upper Bound
LSD	Perlakuan A	Perlakuan B	-.17200	.19446	.394	-.5957	.2517
		Perlakuan C	-.70800*	.19446	.003	-1.1317	-.2843
	Perlakuan B	Perlakuan A	.17200	.19446	.394	-.2517	.5957
		Perlakuan C	-.53600*	.19446	.017	-.9597	-.1123
	Perlakuan C	Perlakuan A	.70800*	.19446	.003	.2843	1.1317
		Perlakuan B	.53600*	.19446	.017	.1123	.9597

*. The mean difference is significant at the 0.05 level.

c. Laju Pertumbuhan Spesifik (SGR)

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
SGR	Perlakuan A	.253	5	.200*	.930	5	.599
	Perlakuan B	.219	5	.200*	.923	5	.551
	Perlakuan C	.205	5	.200*	.934	5	.627

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
SGR	Based on Mean	1.401	2	12	.284
	Based on Median	1.316	2	12	.304
	Based on Median and with adjusted df	1.316	2	8.682	.317
	Based on trimmed mean	1.386	2	12	.287

ANOVA

SGR

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.266	2	.133	4.752	.030
Within Groups	.336	12	.028		
Total	.601	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: SGR

			Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
	(I) Perlakuan	(J) Perlakuan				Lower Bound	Upper Bound
LSD	Perlakuan A	Perlakuan B	-.07400	.10576	.497	-.3044	.1564
		Perlakuan C	-.31200*	.10576	.012	-.5424	-.0816
	Perlakuan B	Perlakuan A	.07400	.10576	.497	-.1564	.3044
		Perlakuan C	-.23800*	.10576	.044	-.4684	-.0076
	Perlakuan C	Perlakuan A	.31200*	.10576	.012	.0816	.5424
		Perlakuan B	.23800*	.10576	.044	.0076	.4684

*. The mean difference is significant at the 0.05 level.

d. Rasio Konversi Pakan (FCR)

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
FCR	Perlakuan A	.199	5	.200*	.935	5	.629
	Perlakuan B	.182	5	.200*	.950	5	.740
	Perlakuan C	.227	5	.200*	.917	5	.512

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
FCR	Based on Mean	5.855	2	12	.017
	Based on Median	3.902	2	12	.049
	Based on Median and with adjusted df	3.902	2	7.546	.069
	Based on trimmed mean	5.618	2	12	.019

ANOVA

FCR

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.070	2	.035	3.195	.077
Within Groups	.132	12	.011		
Total	.203	14			

Robust Tests of Equality of Means

FCR

	Statistic[a]	df1	df2	Sig.
Welch	1.718	2	6.409	.253
Brown-Forsythe	3.195	2	6.049	.113

a. Asymptotically F distributed.

e. Tingkat Kelangsungan Hidup (SR)

Kruskal-Wallis Test

Ranks

	Perlakuan	N	Mean Rank
SR	Perlakuan A	5	7.30
	Perlakuan B	5	10.60
	Perlakuan C	5	6.10
	Total	15	

Test Statistics[a,b]

	SR
Kruskal-Wallis H	3.148
df	2
Asymp. Sig.	.207

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

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Lampiran 6.Hasil Analisis Laboratorium

KEMENTERIAN PENDIDIKAN TINGGI,
SAINS DAN TEKNOLOGI
UNIVERSITAS UDAYANA
FAKULTAS TEKNOLOGI PERTANIAN
LABORATORIUM PELAYANAN TERINTEGRASI
Jln. Kampus Bukit Jimbaran, Badung – Bali
Telepon : (0361) 701801, 701803; Fax : (0361) 701801
Jln. P. B. Sudirman, Denpasar Telp. 0361-245010
Laman : https://labftp.unud.ac.id | Email: labftp@unud.ac.id

Nomor : 84/UN.14.26/LAB.H.A/V/2026
Lampiran : 1
Perihal : Hasil Analisis Laboratorium

Kepada Yth.
Bapak/Ibu/Sdr: Nita Wahyuni
Di –
Tempat

Dengan hormat, bersama ini kami sampaikan hasil analisis sampel :
Nama Sampel : Tepung Eceng Gondok Non Fermentasi Dan Fermentasi
Jumlah : 2 Sampel

HASIL ANALISIS

No	Kode Sampel	Kadar Protein (%bb)
1	Tepung Eceng Gondok Non Fermentasi	16,3488
2	Tepung Eceng Gondok Fermentasi 10 H	17,9057

Demikian surat hasil analisis ini dibuat untuk dapat dipergunakan sebaik-baiknya.

Denpasar, 7 Mei 2026
Kepala Laboratorium Pelayanan Terintegrasi

Ir. Ni Luh Ari Yuasrini, S.TP., M.P.
NIP. 19730304 200812 2020

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Lampiran 7. Dokumentasi Alat dan Bahan Penelitian



Ember Budidaya



Timbangan Neraca Analitik 0,000,9,



Airrator (perangkat airrasi)



DO



Ph dan Suhu



Toples



Thinwall



Saringan



Glass beaker



Baskom



Probiotik *Lactobacillus spp.*(Takeshu)



Gula

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Red bluedox



Garam ikan



Tepung eceng gondok



Progol



Pakan Komersial



Daun pisang

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Lampiran 8. Dokumentasi pembuatan tepung eceng gondok



Memetik daun eceng gondok



Merendam daun eceng gondok



Proses Penjemuran



Setelah Penjemuran



Proses Pengeringan di Oven



Proses Blender eceng gondok

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 Memindahkan Eceng gondok Setelah di Blender ke Wadah	 Proses Pengayakan Tepung Eceng gondok yang Telah di Blender

Lampiran 9. Dokumentasi persiapan pakan tepung daun eceng gondok

 Pakan Tepung Eceng Gondok Tanpa Fermentasi	 Pengukusan Tepung Eceng Gondok
 Pencampuran Tepung Dengan BAL	 Pengeringan Tepung Dalam Oven

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 Proses Pengayakan	 Persiapan Fermentasi 10 Hari

Lampiran 10. Dokumentasi Proses Pemeliharaan Benih ikan Nila

 Pembuatan Campuran Pakan	 Proses Karantina
 Persiapan Tebar Benih	 Proses Aklimatisasi



Pemberian Pakan



Pengecekan Ph dan Suhu



Pengecekan Do



Pembersihan Ember Budidaya



Pergantian Air

Lampiran 11. Dokumentasi pengumpulan Data Penelitian



Penimbangan Bobot awal



Penimbangan Panjang awal



Penimbangan Bobot awal



Penimbangan Panjang awal





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Penimbangan Bobot akhir	Pengukuran Panjang akhir
 Penimbangah Bobot akhir	 Pengukuran Panjang akhir

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