

LAMPIRAN

Lampiran 1. Dokumentasi Penelitian



Gambar 1. Lokasi Penelitian



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Gambar 3. Benih bandeng



Gambar 4. Persiapan media kolam pemeliharaan



Gambar 5. Pengambilan lumpur dasar tambak



Gambar 5. Pengambilan lumpur dasar tambak



Gambar 6. Pengeringan lumpur 5 cm



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Gambar 9. Pengisian air ketinggian 20 cm



Gambar 10. Penimbangan klekap



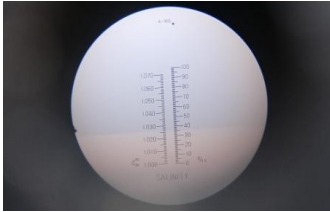
Gambar 11. Penebaran benih bandeng



Gambar 12. Pengukuran pH air (pH meter)



Gambar 13. Pengukuran suhu (Thermometer)



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Gambar 17. Pengukuran bobot awal pemeliharaan



Gambar 18. Pengukuran panjang benih akhir pemeliharaan



Gambar 19. Pengukuran bobot akhir pemeliharaan

**Lampiran 2. Data Pertumbuhan Panjang dan Berat Benih Ikan Bandeng
(*Chanos sp*)**

Perlakuan	Ulangan	Pengukuran Awal		Pengukuran Akhir	
		Panjang (mm)	Berat (gram)	Panjang (mm)	Berat (gram)
P1 (Kontrol)	1	38	2.3	48	2.9
	2	32	2.35	40	3.48
	3	34	2.4	42	3.48
Jumlah		104	7.05	130	9.86
Rata-Rata		34.67	2.35	43.33	3.29
P2 (15 mL/L)	1	38	2.37	48	4
	2	32	2.45	40	3.65
	3	34	2.35	44	3.24
Jumlah		104	7.17	132	10.89
Rata-Rata		34.67	2.39	44.00	3.63
P3 (25 mL/L)	1	38	2.32	47	4.38
	2	32	2.43	40	3.74
	3	34	2.4	47	3.75
Jumlah		104	7.15	134	11.87
Rata-Rata		34.67	2.38	44.67	3.96
P4 (35 mL/L)	1	38	2.4	48	4.28
	2	32	2.35	47	3.61
	3	34	2.3	40	4.32
Jumlah		104	7.05	135	12.21
Rata-Rata		34.67	2.35	45.00	4.07

Lampiran 3. Data Laju Pertumbuhan Berat Mutlak dan Panjang Mutlak Benih Ikan Bandeng (*Chanos sp*)

Perlakuan	Berat Akhir (gr)	Berat Awal (gr)	Berat Mutlak (gr)
P1 (Kontrol)	3,29	2,35	3,13
P2 (15 ml/L)	3,63	2,39	4,13
P3 (25 ml/L)	3,96	2,38	5,26
P4 (35 ml/L)	4,07	2,35	5,73

Perlakuan	Panjang Akhir (mm)	Panjang Awal (mm)	Panjang Mutlak (mm)
P1 (Kontrol)	43,33	34,67	8,63
P2 (15 ml/L)	44,00	34,67	9,33
P3 (25 ml/L)	44,67	34,67	10
P4 (35 ml/L)	45,00	34,67	10,33

Lampiran 4. Analisis Data Statistik Berat Mutlak Benih Ikan Bandeng (*Chanos sp*)

Berat Awal Benih Ikan Bandeng (*Chanos sp*)

Oneway

[DataSet0]

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
					Lower Bound	Upper Bound			
Ulangan	P1	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P2	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P3	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P4	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	Total	12	2,0000	,85280	,24618	1,4582	2,5418	1,00	3,00
Hasil	P1	3	2,3500	,05000	,02887	2,2258	2,4742	2,30	2,40
	P2	3	2,3900	,05292	,03055	2,2586	2,5214	2,35	2,45
	P3	3	2,3833	,05686	,03283	2,2421	2,5246	2,32	2,43
	P4	3	2,3500	,05000	,02887	2,2258	2,4742	2,30	2,40
	Total	12	2,3683	,04877	,01408	2,3373	2,3993	2,30	2,45

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Ulangan	Based on Mean	,000	3	8	1,000
	Based on Median	,000	3	8	1,000
	Based on Median and with adjusted df	,000	3	8,000	1,000
	Based on trimmed mean	,000	3	8	1,000
Hasil	Based on Mean	,096	3	8	,960
	Based on Median	,007	3	8	,999
	Based on Median and with adjusted df	,007	3	7,176	,999
	Based on trimmed mean	,085	3	8	,966

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Ulangan	Between Groups	,000	3	,000	,000	1,000
	Within Groups	8,000	8	1,000		
	Total	8,000	11			
Hasil	Between Groups	,004	3	,001	,495	,695
	Within Groups	,022	8	,003		
	Total	,026	11			

Multiple comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
						Lower Bound	Upper Bound	
Ulangan	LSD	P1	P2	,00000	,81650	1,000	-1,8828	1,8828
			P3	,00000	,81650	1,000	-1,8828	1,8828
			P4	,00000	,81650	1,000	-1,8828	1,8828
		P2	P1	,00000	,81650	1,000	-1,8828	1,8828
			P3	,00000	,81650	1,000	-1,8828	1,8828
			P4	,00000	,81650	1,000	-1,8828	1,8828
		P3	P1	,00000	,81650	1,000	-1,8828	1,8828
			P2	,00000	,81650	1,000	-1,8828	1,8828
			P4	,00000	,81650	1,000	-1,8828	1,8828
		P4	P1	,00000	,81650	1,000	-1,8828	1,8828
			P2	,00000	,81650	1,000	-1,8828	1,8828
			P3	,00000	,81650	1,000	-1,8828	1,8828
Hasil	LSD	P1	P2	-,04000	,04288	,378	-,1389	,0589
			P3	-,03333	,04288	,459	-,1322	,0656
			P4	,00000	,04288	1,000	-,0989	,0989
		P2	P1	,04000	,04288	,378	-,0589	,1389
			P3	,00667	,04288	,880	-,0922	,1056
			P4	,04000	,04288	,378	-,0589	,1389
		P3	P1	,03333	,04288	,459	-,0656	,1322
			P2	-,00667	,04288	,880	-,1056	,0922
			P4	,03333	,04288	,459	-,0656	,1322
		P4	P1	,00000	,04288	1,000	-,0989	,0989
			P2	-,04000	,04288	,378	-,1389	,0589
			P3	-,03333	,04288	,459	-,1322	,0656

Duncan

Hasil

Duncan ^a	Perlakuan	N	Subset for alpha = 0.05
			1
	P1	3	2,3500
	P4	3	2,3500
	P3	3	2,3833
	P2	3	2,3900
	Sig.		,405

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Berat Akhir Benih Ikan Bandeng (*Chanos sp*)

Oneway

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
					Lower Bound	Upper Bound			
Ulangan	P1	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P2	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P3	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P4	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
Total	12	2,0000	,85280	,24618		1,4582	2,5418	1,00	3,00
Hasil	P1	3	3,2867	,33486	,19333	2,4548	4,1185	2,90	3,48
	P2	3	3,6300	,38039	,21962	2,6850	4,5750	3,24	4,00
	P3	3	3,9567	,36665	,21169	3,0459	4,8675	3,74	4,38
	P4	3	4,0700	,39887	,23029	3,0791	5,0609	3,61	4,32
Total	12	3,7358	,44933	,12971		3,4503	4,0213	2,90	4,38

Test of Homogeneity of Variances

		Levene	df1	df2	Sig.
		Statistic			
Ulangan	Based on Mean	,000	3	8	1,000
	Based on Median	,000	3	8	1,000
	Based on Median and with adjusted df	,000	3	8,000	1,000
	Based on trimmed mean	,000	3	8	1,000
Hasil	Based on Mean	,071	3	8	,974
	Based on Median	,019	3	8	,996
	Based on Median and with adjusted df	,019	3	7,215	,996
	Based on trimmed mean	,058	3	8	,980

ANOVA

		Sum of	df	Mean Square	F	Sig.
		Squares				
Ulangan	Between Groups	,000	3	,000	,000	1,000
	Within Groups	8,000	8	1,000		
	Total	8,000	11			
Hasil	Between Groups	1,120	3	,373	2,714	,115
	Within Groups	1,101	8	,138		
	Total	2,221	11			

Dependent Variable		(I) Perlakuan	(J) Perlakuan	Difference (I-J)	Std. Error	Sig.	Lower Bound	Upper Bound		
Ulangan	LSD	P1	P2	,00000	,81650	1,000	-1,8828	1,8828		
			P3	,00000	,81650	1,000	-1,8828	1,8828		
			P4	,00000	,81650	1,000	-1,8828	1,8828		
		P2	P1	,00000	,81650	1,000	-1,8828	1,8828		
			P3	,00000	,81650	1,000	-1,8828	1,8828		
			P4	,00000	,81650	1,000	-1,8828	1,8828		
		P3	P1	,00000	,81650	1,000	-1,8828	1,8828		
			P2	,00000	,81650	1,000	-1,8828	1,8828		
			P4	,00000	,81650	1,000	-1,8828	1,8828		
		P4	P1	,00000	,81650	1,000	-1,8828	1,8828		
			P2	,00000	,81650	1,000	-1,8828	1,8828		
			P3	,00000	,81650	1,000	-1,8828	1,8828		
		Hasil	LSD	P1	P2	-,34333	,30287	,290	-1,0417	,3551
					P3	-,67000	,30287	,058	-1,3684	,0284
					P4	-,78333*	,30287	,032	-1,4817	-,0849
				P2	P1	,34333	,30287	,290	-,3551	1,0417
P3	-,32667				,30287	,312	-1,0251	,3717		
P4	-,44000				,30287	,184	-1,1384	,2584		
P3	P1			,67000	,30287	,058	-,0284	1,3684		
	P2			,32667	,30287	,312	-,3717	1,0251		
	P4			-,11333	,30287	,718	-,8117	,5851		
P4	P1			,78333*	,30287	,032	,0849	1,4817		
	P2			,44000	,30287	,184	-,2584	1,1384		
	P3			,11333	,30287	,718	-,5851	,8117		

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

Duncan

Hasil

		Subset for alpha = 0.05		
	Perlakuan	N	1	2
Duncan ^a	P1	3	3,2867	
	P2	3	3,6300	3,6300
	P3	3	3,9567	3,9567
	P4	3		4,0700
	Sig.			,067

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 5. Analisis Data Statistik Panjang Mutlak Benih Ikan Bandeng (*Chanos sp*)

Panjang Awal Benih Ikan Bandeng (*Chanos sp*)

Oneway

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Ulangan	P1	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P2	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P3	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P4	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	Total	12	2,0000	,85280	,24618	1,4582	2,5418	1,00	3,00
Hasil	P1	3	34,6667	3,05505	1,76383	27,0775	42,2558	32,00	38,00
	P2	3	34,6667	3,05505	1,76383	27,0775	42,2558	32,00	38,00
	P3	3	34,6667	3,05505	1,76383	27,0775	42,2558	32,00	38,00
	P4	3	34,6667	3,05505	1,76383	27,0775	42,2558	32,00	38,00
	Total	12	34,6667	2,60536	,75210	33,0113	36,3220	32,00	38,00

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Ulangan	Based on Mean	,000	3	8	1,000
	Based on Median	,000	3	8	1,000
	Based on Median and with adjusted df	,000	3	8,000	1,000
	Based on trimmed mean	,000	3	8	1,000
Hasil	Based on Mean	,000	3	8	1,000
	Based on Median	,000	3	8	1,000
	Based on Median and with adjusted df	,000	3	8,000	1,000
	Based on trimmed mean	,000	3	8	1,000

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Ulangan	Between Groups	,000	3	,000	,000	1,000
	Within Groups	8,000	8	1,000		
	Total	8,000	11			
Hasil	Between Groups	,000	3	,000	,000	1,000
	Within Groups	74,667	8	9,333		
	Total	74,667	11			

Multiple comparisons

Dependent Variable		(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
							Lower Bound	Upper Bound
Ulangan	LSD	P1	P2	,00000	,81650	1,000	-1,8828	1,8828
			P3	,00000	,81650	1,000	-1,8828	1,8828
			P4	,00000	,81650	1,000	-1,8828	1,8828
		P2	P1	,00000	,81650	1,000	-1,8828	1,8828
			P3	,00000	,81650	1,000	-1,8828	1,8828
			P4	,00000	,81650	1,000	-1,8828	1,8828
		P3	P1	,00000	,81650	1,000	-1,8828	1,8828
			P2	,00000	,81650	1,000	-1,8828	1,8828
			P4	,00000	,81650	1,000	-1,8828	1,8828
		P4	P1	,00000	,81650	1,000	-1,8828	1,8828
			P2	,00000	,81650	1,000	-1,8828	1,8828
			P3	,00000	,81650	1,000	-1,8828	1,8828
Hasil	LSD	P1	P2	,00000	2,49444	1,000	-5,7522	5,7522
			P3	,00000	2,49444	1,000	-5,7522	5,7522
			P4	,00000	2,49444	1,000	-5,7522	5,7522
		P2	P1	,00000	2,49444	1,000	-5,7522	5,7522
			P3	,00000	2,49444	1,000	-5,7522	5,7522
			P4	,00000	2,49444	1,000	-5,7522	5,7522
		P3	P1	,00000	2,49444	1,000	-5,7522	5,7522
			P2	,00000	2,49444	1,000	-5,7522	5,7522
			P4	,00000	2,49444	1,000	-5,7522	5,7522
		P4	P1	,00000	2,49444	1,000	-5,7522	5,7522
			P2	,00000	2,49444	1,000	-5,7522	5,7522
			P3	,00000	2,49444	1,000	-5,7522	5,7522

Duncan

Hasil

		Perlakuan	N	Subset for alpha = 0.05
				1
Duncan ^a	P1		3	34,6667
	P2		3	34,6667
	P3		3	34,6667
	P4		3	34,6667
	Sig.			1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Panjang Akhir Benih Ikan Bandeng (*Chanos sp*)

► Oneway

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Ulangan	P1	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P2	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P3	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	P4	3	2,0000	1,00000	,57735	-,4841	4,4841	1,00	3,00
	Total	12	2,0000	,85280	,24618	1,4582	2,5418	1,00	3,00
Hasil	P1	3	43,3333	4,16333	2,40370	32,9910	53,6756	40,00	48,00
	P2	3	44,0000	4,00000	2,30940	34,0634	53,9366	40,00	48,00
	P3	3	44,6667	4,04145	2,33333	34,6271	54,7062	40,00	47,00
	P4	3	45,0000	4,35890	2,51661	34,1719	55,8281	40,00	48,00
	Total	12	44,2500	3,59608	1,03810	41,9652	46,5348	40,00	48,00

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Ulangan	Based on Mean	,000	3	8	1,000
	Based on Median	,000	3	8	1,000
	Based on Median and with adjusted df	,000	3	8,000	1,000
	Based on trimmed mean	,000	3	8	1,000
Hasil	Based on Mean	,076	3	8	,971
	Based on Median	,007	3	8	,999
	Based on Median and with adjusted df	,007	3	6,993	,999
	Based on trimmed mean	,062	3	8	,978

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Ulangan	Between Groups	,000	3	,000	,000	1,000
	Within Groups	8,000	8	1,000		
	Total	8,000	11			
Hasil	Between Groups	4,917	3	1,639	,095	,960
	Within Groups	137,333	8	17,167		
	Total	142,250	11			

Multiple comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
						Lower Bound	Upper Bound	
Ulangan	LSD	P1	P2	,00000	,81650	1,000	-1,8828	1,8828
			P3	,00000	,81650	1,000	-1,8828	1,8828
			P4	,00000	,81650	1,000	-1,8828	1,8828
		P2	P1	,00000	,81650	1,000	-1,8828	1,8828
			P3	,00000	,81650	1,000	-1,8828	1,8828
			P4	,00000	,81650	1,000	-1,8828	1,8828
		P3	P1	,00000	,81650	1,000	-1,8828	1,8828
			P2	,00000	,81650	1,000	-1,8828	1,8828
			P4	,00000	,81650	1,000	-1,8828	1,8828
		P4	P1	,00000	,81650	1,000	-1,8828	1,8828
			P2	,00000	,81650	1,000	-1,8828	1,8828
			P3	,00000	,81650	1,000	-1,8828	1,8828
Hasil	LSD	P1	P2	-,66667	3,38296	,849	-8,4678	7,1345
			P3	-1,33333	3,38296	,704	-9,1345	6,4678
			P4	-1,66667	3,38296	,635	-9,4678	6,1345
		P2	P1	,66667	3,38296	,849	-7,1345	8,4678
			P3	-,66667	3,38296	,849	-8,4678	7,1345
			P4	-1,00000	3,38296	,775	-8,8011	6,8011
		P3	P1	1,33333	3,38296	,704	-6,4678	9,1345
			P2	,66667	3,38296	,849	-7,1345	8,4678
			P4	-,33333	3,38296	,924	-8,1345	7,4678
		P4	P1	1,66667	3,38296	,635	-6,1345	9,4678
			P2	1,00000	3,38296	,775	-6,8011	8,8011
			P3	,33333	3,38296	,924	-7,4678	8,1345

Duncan

Hasil

Perlakuan	N	Subset for
		alpha = 0.05
Duncan ^a		1
P1	3	43,3333
P2	3	44,0000
P3	3	44,6667
P4	3	45,0000
Sig.		,654

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 6. Data *Survival Rate* (SR) per-minggu

Data *Survival Rate* (SR) minggu ke-1

Ulangan	Perlakuan			
	P1 (Kontrol)	P2	P3	P4
1	30	29	30	30
2	29	30	29	30
3	29	29	30	30
Jumlah	89	88	89	90

Data *Survival Rate* (SR) minggu ke-2

Ulangan	Perlakuan			
	P1 (Kontrol)	P2	P3	P4
1	30	28	30	29
2	28	30	29	30
3	28	29	30	30
Jumlah	86	87	89	89

Data *Survival Rate* (SR) minggu ke-3

Ulangan	Perlakuan			
	P1 (Kontrol)	P2	P3	P4
1	28	29	28	29
2	29	29	29	30
3	28	28	29	30
Jumlah	85	86	86	89

Data Survival Rate (SR) minggu ke-4

Ulangan	Perlakuan			
	P1 (Kontrol)	P2	P3	P4
1	27	27	28	29
2	29	28	28	30
3	27	30	29	30
Jumlah	83	85	86	89

Lampiran 6. Total Survival Rate (SR)

Minggu ke-	Perlakuan			
	P1 (Kontrol)	P2	P3	P4
1	87	88	89	90
2	86	87	89	89
3	85	86	86	89
4	83	85	86	89
Total	342	346	352	355
Rata-rata	85,5	86,5	88	88,75
SD	0,5773503	0,5	0,5773503	0,5

Nilai Rata-rata *Survival Rate* (SR) Benih Ikan Bandeng (*Chanos sp*) pada Masing-masing Perlakuan

Perlakuan	SR (Survival Rate)
P1	85,5±0,57 ^a
P2	86,5±0,50 ^b
P3	88±0,57 ^b
P4	88,75±0,50 ^c

a, b, c = Superskrip yang berbeda menunjukkan terdapat perbedaan nyata ($p < 0,05$)

Keterangan:

P1 = Kontrol

P2 = Penambahan probiotik EM-4 15 ml/L

P3 = Penambahan probiotik EM-4 25 ml/L

P4 = Penambahan probiotik EM-4 35 ml/L

Lampiran 7. Analisis Data Statistik *Survival Rate* (SR)

Oneway

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Ulangan	P1	4	2,5000	1,29099	,64550	,4457	4,5543	1,00	4,00
	P2	4	2,5000	1,29099	,64550	,4457	4,5543	1,00	4,00
	P3	4	2,5000	1,29099	,64550	,4457	4,5543	1,00	4,00
	P4	4	2,5000	1,29099	,64550	,4457	4,5543	1,00	4,00
	Total	16	2,5000	1,15470	,28868	1,8847	3,1153	1,00	4,00
Hasil	P1	4	87,50	,577	,289	86,58	88,42	87	88
	P2	4	87,75	,500	,250	86,95	88,55	87	88
	P3	4	85,50	,577	,289	84,58	86,42	85	86
	P4	4	89,75	,500	,250	88,95	90,55	89	90
	Total	16	87,63	1,628	,407	86,76	88,49	85	90

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Ulangan	Based on Mean	,000	3	12	1,000
	Based on Median	,000	3	12	1,000
	Based on Median and with adjusted df	,000	3	12,000	1,000
	Based on trimmed mean	,000	3	12	1,000
Hasil	Based on Mean	,667	3	12	,588
	Based on Median	,667	3	12	,588
	Based on Median and with adjusted df	,667	3	6,000	,603
	Based on trimmed mean	,667	3	12	,588

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Ulangan	Between Groups	,000	3	,000	,000	1,000
	Within Groups	20,000	12	1,667		
	Total	20,000	15			
Hasil	Between Groups	36,250	3	12,083	41,429	<,001
	Within Groups	3,500	12	,292		
	Total	39,750	15			

Multiple Comparisons

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Ulangan LSD	P1	P2	,00000	,91287	1,000	-1,9890	1,9890
		P3	,00000	,91287	1,000	-1,9890	1,9890
		P4	,00000	,91287	1,000	-1,9890	1,9890
	P2	P1	,00000	,91287	1,000	-1,9890	1,9890
		P3	,00000	,91287	1,000	-1,9890	1,9890
		P4	,00000	,91287	1,000	-1,9890	1,9890
	P3	P1	,00000	,91287	1,000	-1,9890	1,9890
		P2	,00000	,91287	1,000	-1,9890	1,9890
		P4	,00000	,91287	1,000	-1,9890	1,9890
	P4	P1	,00000	,91287	1,000	-1,9890	1,9890
		P2	,00000	,91287	1,000	-1,9890	1,9890
		P3	,00000	,91287	1,000	-1,9890	1,9890
Hasil LSD	P1	P2	-,250 [*]	,382	,525	-1,08	,58
		P3	2,000 [*]	,382	<,001	1,17	2,83
		P4	-2,250 [*]	,382	<,001	-3,08	-1,42
	P2	P1	,250	,382	,525	-,58	1,08
		P3	2,250 [*]	,382	<,001	1,42	3,08
		P4	-2,000 [*]	,382	<,001	-2,83	-1,17
	P3	P1	-2,000 [*]	,382	<,001	-2,83	-1,17
		P2	-2,250 [*]	,382	<,001	-3,08	-1,42
		P4	-4,250 [*]	,382	<,001	-5,08	-3,42
	P4	P1	2,250 [*]	,382	<,001	1,42	3,08
		P2	2,000 [*]	,382	<,001	1,17	2,83
		P3	4,250 [*]	,382	<,001	3,42	5,08

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

Duncan

Hasil

Duncan ^a	Perlakuan	N	Subset for alpha = 0.05		
			1	2	3
	P3	4	85,50		
	P1	4		87,50	
	P2	4		87,75	
	P4	4			89,75
	Sig.		1,000	,525	1,000

Means for groups in homogeneous subsets are displayed.

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

Lampiran 8. Data Suhu Pemeliharaan Benih Ikan Bandeng (*Chanos sp*) selama 30 hari

HARI	P1		P2		P3		P4	
	PAGI	SORE	PAGI	SORE	PAGI	SORE	PAGI	SORE
1.	26	30,1	27,4	29,6	26,7	29,7	26,7	29,8
2.	26,9	29,8	27,9	29,2	27,7	28,6	27,5	29,2
3.	27,3	29,2	26,7	30	26,9	29,9	26,6	29,3
4.	28,1	28,2	27,5	29,1	28,1	30,4	27,3	30,1
5.	28	28,7	27,4	30,2	27,6	30,1	27,4	30
6.	27,9	29,8	27,4	29,8	26,8	29,1	27,4	29,4
7.	26,6	28,4	27,4	29,2	28	28,7	26,8	29,1
8.	26,9	30,4	27,2	29,7	26,9	30,2	27,3	30,4
9.	27,6	29,3	26,7	30	27,6	30,4	28	29,1
10.	27,4	28,7	27,9	29,1	27,2	29,3	26,7	29,6
11.	28	29,4	26,8	29,6	28	29,6	27,6	29,7
12.	27,5	30,2	27,3	29,7	27,4	30,2	27,6	29,2
13.	27,5	29,1	26,9	29,6	27,2	29,4	26,9	29,3
14.	26,4	29,6	28	30,2	26,9	28,7	27,6	29,1
15.	26,8	29,3	26,8	29,8	27,7	29,7	27,7	29,1
16.	26,7	28,7	27,5	30,4	27,6	29,3	27,5	26,1
17.	28,1	30,2	26,7	27,2	28	28,7	26,8	30

18.	27,8	30	27,9	27,6	26,8	29,1	27,4	29,6
19.	26,9	28,7	26,8	26,7	27,2	30	27,6	29,7
20.	26,3	29,1	27,5	27,1	27,4	30,2	27,6	29,6
21.	27,3	29,3	27,4	26,9	27,6	29,4	27,3	29,6
22.	27,4	29,6	27	27,4	26,7	28,7	27,6	30,2
23.	27,7	28,7	27,4	30,2	26,8	29,1	27,4	29,3
24.	26,8	29,5	27,2	29,1	26,9	28,7	27,6	29,6
25.	27,5	28,1	26,8	29,6	27,1	29,4	26,9	29,3
26.	26,7	28,4	26,9	29,2	26,9	29,8	27,7	29,4
27.	27,6	30,2	27,3	29,1	28,8	27,5	26,6	29,2
28.	26,4	28,6	26,7	29,6	27,6	30,1	27,9	29,7
29.	28	29,8	26,7	29,2	28	29,7	27,5	29,5
30.	27,3	29,7	28	30	27,6	29,3	27,2	29,8

Lampiran 9. Data pH Pemeliharaan Benih Ikan Bandeng (*Chanos sp*) selama 30 hari

HARI	P1	P2	P3	P4
1.	8,15	8,1	8,17	8,26
2.	8,1	7,68	7,98	8,1
3.	8,05	7,69	7,93	8,05
4.	8,2	8,15	8,2	8,17
5.	7,25	7,54	7,31	7,35
6.	7,31	7,68	7,57	7,31
7.	7,9	7,83	7,68	7,83
8.	8,15	7,68	7,83	8,15
9.	7,29	7,67	7,25	7,37
10.	7,23	7,49	7,23	7,35
11.	7,71	7,65	7,67	7,82
12.	7,68	7,68	7,35	7,82
13.	7,9	7,83	7,68	8,1
14.	8,15	7,68	7,83	8,15
15.	7,93	7,67	7,63	7,83
16.	7,57	7,39	7,63	7,67
17.	7,23	7,49	7,23	7,35
18.	7,62	7,42	7,35	7,65
19.	7,82	7,39	7,57	7,43
20.	7,27	7,65	7,68	7,83
21.	8,2	8,17	8,1	8,17

22.	8,1	7,67	7,67	8,1
23.	7,56	7,46	7,43	7,43
24.	7,35	7,54	7,31	7,4
25.	7,31	7,68	7,57	7,31
26.	7,25	7,54	7,31	7,35
27.	7,67	7,43	7,29	7,65
28.	7,71	7,65	7,67	7,82
29.	7,9	7,83	7,68	7,9
30.	7,29	7,67	7,31	7,35

Lampiran 10. Data DO Pemeliharaan Benih Ikan Bandeng (*Chanos sp*) selama 30 hari

HARI	P1		P2		P3		P4	
	PAGI	SORE	PAGI	SORE	PAGI	SORE	PAGI	SORE
1.	7,5	8,2	7,7	8,3	7,3	8,2	6,8	8,5
2.	6,3	8,8	6,8	7,9	7,2	8,8	8,2	8,3
3.	6,8	8,4	7,6	8,3	6,9	8,4	7,5	8,5
4.	7,5	7,9	7,5	7,9	7,5	7,9	6,8	8,3
5.	7,2	8,6	6,9	8,3	6,3	8,6	7,2	8,5
6.	6,9	8,4	7,5	7,9	6,8	8,4	6,9	8,3
7.	7,7	8,7	6,3	8,3	7,2	8,7	7,2	7,9
8.	6,8	8,8	6,8	8,9	6,9	8,8	6,9	8,3
9.	8,2	8,7	7,5	8,3	7,3	8,7	7,7	8,5
10.	7,5	9	7,2	8,9	7,3	9	6,8	8,3
11.	6,8	7,9	7,9	6,9	7,9	7,5	7,9	8,2
12.	6,9	8,5	7,5	7,9	6,9	8,5	6,9	8,3
13.	7,3	8,3	6,3	8,5	7,3	8,3	6,9	7,9
14.	7,3	8,5	6,8	8,3	7,3	8,5	7,7	8,5
15.	6,3	8,6	7,5	8,9	7,2	8,6	6,8	8,6
16.	6,8	8,7	7,2	7,9	6,9	8,7	8,2	8,3
17.	6,8	8,4	7,2	8,4	8	8,4	6,4	8,6

18.	7,2	8	7,5	8,2	7,3	8	6,9	8,5
19.	7,3	8,6	7,6	7,8	6,8	8,6	7,5	8,6
20.	6,7	8,5	8,6	7,2	8,5	8,2	8,2	8,3
21.	7,6	8,4	6,9	8,5	7,5	8,4	6,9	7,9
22.	6,4	7,8	7,5	8,6	7,6	7,8	8,2	8,3
23.	8	8,3	76,7	8,6	7,3	8,3	7,1	7,8
24.	6,9	7,9	6,7	8,3	6,4	7,9	6,7	8,4
25.	6,7	8,6	6,9	7,9	6,7	8,6	6,9	8,3
26.	7,2	8,2	7,2	7,6	6,7	8,2	7,3	8,5
27.	7,1	7,9	6,7	8,2	6,7	8,6	6,9	8,3
28.	7,5	8,5	7,7	8,3	6,3	8,5	8,2	8,5
29.	7,7	8,6	6,9	8,3	7,5	7,8	7,5	7,9
30.	7,3	8	6,3	7,9	7,3	8,7	6,9	7,8



**PROGRAM STUDI BIOLOGI
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BUKTI BIMBINGAN SKRIPSI

Nama : Rifka Ayu Layyinah
NIM : 202500010
Judul Skripsi : Pemberian Probiotik EM-4 (*Effective Microorganisms 4*) Untuk Menumbuhkan Klekap Sebagai Pakan Alami Guna Meningkatkan Pertumbuhan Dan *Survival Rate* Benih Ikan Bandeng (*Chanos sp*)
Dosen Pembimbing : Prof. Dr. Ir. Pungky Slamet W.K., M.Si.

No.	Tanggal	Materi Bimbingan	Pembimbing
1.	10 Juli 2024	Bimbingan BAB V	
2.	12 Juli 2024	Revisi BAB V	
3.	15 Juli 2024	Bimbingan BAB VI & BAB VII	
4.	17 Juli 2024	Revisi BAB VI & BAB VII	
5.	19 Juli 2024	Bimbingan BAB I – VII	
6.	20 Juli 2024	Revisi BAB I – VII	
7.	21 Juli 2024	Bimbingan BAB I- Lampiran	
8.	22 Juli 2024	ACC Naskah Skripsi	

Mengetahui,

Dekan FST

Prof. Dr. Ir. Tatang Sopandi, M.P.
NIP. 196307041993111001

Dosen Pembimbing

Prof. Dr. Ir. Pungky Slamet W.K., M.Si.
NIDN. 1602768/DY



PERSETUJUAN PERBAIKAN SKRIPSI

Dosen Pembimbing dan Penguji di bawah ini telah menyetujui atas perbaikan naskah kerangka acuan skripsi yang dilakukan oleh:

Nama : Rifka Ayu Layyinah
NIM : 202500010
Judul Skripsi : Pemberian Probiotik EM-4 (*Effective Microorganisms 4*)
Untuk Menumbuhkan Klekap Sebagai Pakan Alami
Guna Meningkatkan Pertumbuhan Dan *Survival Rate*
Benih Ikan Bandeng (*Chanos sp*)

DOSEN PEMBIMBING

No.	Nama	Tanda Tangan	Tanggal Persetujuan
1.	Prof. Dr. Ir. Pungky Slamet W.K., M.Si.		01-08-2024

DOSEN PENGUJI

No.	Nama	Tanda Tangan	Tanggal Persetujuan
1.	Dra. Dr. Sukarjati, M.Kes.		01-08-2024

***Catatan:**

Naskah skripsi dapat digandakan dan dijilid, apabila mahasiswa yang bersangkutan telah mendapat persetujuan dari dosen pembimbing dan penguji.