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Lampiran:

Lampiran 1. Hasil analisis derajat hidrolisis protein dan protein terlarut

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean Lower Bound	Upper Bound	Min	Max
DHP	0 %	3	41.9967	.44613	.25757	40.8884	43.1049	41.65	42.50
	1,5 %	3	44.6300	.82831	.47823	42.5724	46.6876	43.72	45.34
	3 %	3	47.2967	.39107	.22578	46.3252	48.2681	46.89	47.67
	4,5%	3	50.3000	.56205	.32450	48.9038	51.6962	49.85	50.93
	Total	12	46.0558	3.25988	.94105	43.9846	48.1271	41.65	50.93
Protein_ terlarut	0 %	3	67.8267	.74002	.42725	65.9883	69.6650	67.09	68.57
	1,5 %	3	70.5867	1.03828	.59945	68.0074	73.1659	69.89	71.78
	3 %	3	81.0600	.40951	.23643	80.0427	82.0773	80.78	81.53
	4,5%	3	88.0800	1.14000	.65818	85.2481	90.9119	87.12	89.34
	Total	12	76.8883	8.52605	2.46126	71.4711	82.3055	67.09	89.34

Lampiran 2. Hasil uji lanjut W-Tuckey derajat hidrolisis protein dan protein terlarut

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Dosis_enzim	(J) Dosis_enzim	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	Upper Bound
DHP	0 %	1,5 %	-2.63333*	.47504	.002	-4.1546	-1.1121
		3 %	-5.30000*	.47504	.000	-6.8212	-3.7788
		4,5%	-8.30333*	.47504	.000	-9.8246	-6.7821
	1,5 %	0 %	2.63333*	.47504	.002	1.1121	4.1546
		3 %	-2.66667*	.47504	.002	-4.1879	-1.1454
		4,5%	-5.67000*	.47504	.000	-7.1912	-4.1488
	3 %	0 %	5.30000*	.47504	.000	3.7788	6.8212
		1,5 %	2.66667*	.47504	.002	1.1454	4.1879
		4,5%	-3.00333*	.47504	.001	-4.5246	-1.4821
	4,5%	0 %	8.30333*	.47504	.000	6.7821	9.8246
		1,5 %	5.67000*	.47504	.000	4.1488	7.1912
		3 %	3.00333*	.47504	.001	1.4821	4.5246
Protein_ terlarut	0 %	1,5 %	-2.76000*	.71798	.021	-5.0592	-.4608
		3 %	-13.23333*	.71798	.000	-15.5326	-10.9341
		4,5%	-20.25333*	.71798	.000	-22.5526	-17.9541
	1,5 %	0 %	2.76000*	.71798	.021	.4608	5.0592
		3 %	-10.47333*	.71798	.000	-12.7726	-8.1741
		4,5%	-17.49333*	.71798	.000	-19.7926	-15.1941
	3 %	0 %	13.23333*	.71798	.000	10.9341	15.5326
		1,5 %	10.47333*	.71798	.000	8.1741	12.7726
		4,5%	-7.02000*	.71798	.000	-9.3192	-4.7208
	4,5%	0 %	20.25333*	.71798	.000	17.9541	22.5526
		1,5 %	17.49333*	.71798	.000	15.1941	19.7926
		3 %	7.02000*	.71798	.000	4.7208	9.3192

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

Lampiran 3. Hasil analisis aktivitas enzim dengan menggunakan software spss

Descriptive Statistics

Dosis	Hari	Mean	Std. Deviation	N
,0	14	,3400	,03000	3
	17	,3567	,01155	3
	20	,3333	,02082	3
	Total	,3433	,02179	9
1,5	14	,4200	,03606	3
	17	,4600	,02000	3
	20	,4333	,00577	3
	Total	,4378	,02728	9
3,0	14	,5967	,01528	3
	17	,6333	,01155	3
	20	,6233	,00577	3
	Total	,6178	,01922	9
4,5	14	,7300	,02000	3
	17	,7567	,02082	3
	20	,7367	,02517	3
	Total	,7411	,02261	9
Total	14	,5217	,16033	12
	17	,5517	,16169	12
	20	,5317	,16530	12
	Total	,5350	,15825	36

Lampiran 4. Hasil analisis aktivitas enzim protease pada perlakuan dosis enzim papain

Dosis

			95% Confidence Interval	
Dosis	Mean	Std. Error	Lower Bound	Upper Bound
,0	,343	,007	,329	,357
1,5	,438	,007	,424	,452
3,0	,618	,007	,604	,632
4,5	,741	,007	,727	,755

Lampiran 5. Hasil analisis aktivitas enzim protease pada pelakuan umur larva ikan kakap putih

Hari

			95% Confidence Interval	
Hari	Mean	Std. Error	Lower Bound	Upper Bound
14	,522	,006	,509	,534
17	,552	,006	,539	,564
20	,532	,006	,519	,544

Lampiran 6. Hasil analsis aktivitas enzim protease pada kombinasi antara dosis dan umur larva ikan kakap putih

Dosis * Hari

				95% Confidence Interval	
Dosis	Hari	Mean	Std. Error	Lower Bound	Upper Bound
,0	14	,340	,012	,316	,364
	17	,357	,012	,332	,381
	20	,333	,012	,309	,358
1,5	14	,420	,012	,396	,444
	17	,460	,012	,436	,484

	20	,433	,012	,409	,458
3,0	14	,597	,012	,572	,621
	17	,633	,012	,609	,658
	20	,623	,012	,599	,648
4,5	14	,730	,012	,706	,754
	17	,757	,012	,732	,781
	20	,737	,012	,712	,761

Lampiran 7. Hasil uji lanjut W-Tuckey pengaruh dosis enzim papain terhadap aktivitas enzim larva ikan kakap putih

Multiple Comparisons

Tukey HSD

(I) Dosis	(J) Dosis	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
,0	1,5	-,0944*	,00969	,000	-,1212	-,0677
	3,0	-,2744*	,00969	,000	-,3012	-,2477
	4,5	-,3978*	,00969	,000	-,4245	-,3711
1,5	,0	,0944*	,00969	,000	,0677	,1212
	3,0	-,1800*	,00969	,000	-,2067	-,1533
	4,5	-,3033*	,00969	,000	-,3301	-,2766
3,0	,0	,2744*	,00969	,000	,2477	,3012
	1,5	,1800*	,00969	,000	,1533	,2067
	4,5	-,1233*	,00969	,000	-,1501	-,0966
4,5	,0	,3978*	,00969	,000	,3711	,4245
	1,5	,3033*	,00969	,000	,2766	,3301
	3,0	,1233*	,00969	,000	,0966	,1501

Based on observed means.
The error term is Mean Square(Error) = .000.
*. The mean difference is significant at the ,05 level.

Tukey HSDa,b

Dosis	N	Subset			
		1	2	3	4
,0	9	,3433			
1,5	9		,4378		
3,0	9			,6178	
4,5	9				,7411
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .000.
a. Uses Harmonic Mean Sample Size = 9.000.
b. Alpha = ,05.

Lampiran 8. Hasil uji lanjut W-Tuckey pengaruh umur larva ikan kakap putih terhadap aktivitas enzim larva ikan kakap putih

Multiple Comparisons

Tukey HSD

(I) Hari	(J) Hari	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound

14	17	-,0300*	,00839	,004	-,0509	-,0091
	20	-,0100	,00839	,469	-,0309	,0109
17	14	,0300*	,00839	,004	,0091	,0509
	20	,0200	,00839	,063	-,0009	,0409
20	14	,0100	,00839	,469	-,0109	,0309
	17	-,0200	,00839	,063	-,0409	,0009

Based on observed means.

The error term is Mean Square(Error) = .000.

*. The mean difference is significant at the ,05 level.

Tukey HSD[a,b]

		Subset	
Hari	N	1	2
14	12	,5217	
20	12	,5317	,5317
17	12		,5517
Sig.		,469	,063

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .000.
a. Uses Harmonic Mean Sample Size = 12.000.
b. Alpha = ,05.

Lampiran 9. Hasil analisis laju pertumbuhan harian larva ikan kakap putih dengan menggunakan software spss

Descriptive Statistics

Dosis	Hari	Mean	Std. Deviation	N
,0	14	1,3800	,08544	3
	17	1,3100	,10583	3
	20	1,3433	,09815	3
	Total	1,3444	,08918	9
1,5	14	1,5567	,05132	3
	17	1,6300	,17321	3
	20	1,6800	,16523	3
	Total	1,6222	,13368	9
3,0	14	3,2000	,17578	3
	17	3,0867	,26764	3
	20	3,4567	,09815	3
	Total	3,2478	,23451	9
4,5	14	3,4333	,06506	3
	17	3,4233	,12858	3
	20	3,6433	,12055	3
	Total	3,5000	,14283	9
Total	14	2,3925	,97550	12

	17	2,3625	,96016	12
	20	2,5308	1,07909	12
	Total	2,4286	,97996	36

Lampiran 10. Hasil analisis laju pertumbuhan harian larva ikan kakap putih pada perlakuan dosis enzim papain

1. Dosis

Dosis	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
,0	1,344	,047	1,248	1,441
1,5	1,622	,047	1,526	1,719
3,0	3,248	,047	3,151	3,344
4,5	3,500	,047	3,404	3,596

Lampiran 11. Hasil analisis laju pertumbuhan harian larva ikan kakap putih pada perlakuan umur larva ikan kakap putih.

2. Hari

Hari	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
14	2,393	,040	2,309	2,476
17	2,363	,040	2,279	2,446
20	2,531	,040	2,447	2,614

Lampiran 12. Hasil analisis laju pertumbuhan harian larva ikan kakap putih pada kombinasi antara dosis dan umur

3. Dosis * Hari

Dosis	Hari	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
,0	14	1,380	,081	1,213	1,547
	17	1,310	,081	1,143	1,477
	20	1,343	,081	1,176	1,510
1,5	14	1,557	,081	1,390	1,724
	17	1,630	,081	1,463	1,797
	20	1,680	,081	1,513	1,847
3,0	14	3,200	,081	3,033	3,367
	17	3,087	,081	2,920	3,254
	20	3,457	,081	3,290	3,624
4,5	14	3,433	,081	3,266	3,600
	17	3,423	,081	3,256	3,590
	20	3,643	,081	3,476	3,810

Lampiran 13. Hasil uji lanjut W-Tuckey pengaruh dosis enzim papain terhadap pertumbuhan larva ikan kakap putih

Multiple Comparisons

Tukey HSD

(I) Dosis	(J) Dosis	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
,0	1,5	-,2778*	,06604	,002	-,4600	-,0956
	3,0	-1,9033*	,06604	,000	-2,0855	-1,7211
	4,5	-2,1556*	,06604	,000	-2,3377	-1,9734
1,5	,0	,2778*	,06604	,002	,0956	,4600
	3,0	-1,6256*	,06604	,000	-1,8077	-1,4434

	4,5	-1,8778*	,06604	,000	-2,0600	-1,6956
3,0	,0	1,9033*	,06604	,000	1,7211	2,0855
	1,5	1,6256*	,06604	,000	1,4434	1,8077
	4,5	-,2522*	,06604	,004	-,4344	-,0700
4,5	,0	2,1556*	,06604	,000	1,9734	2,3377
	1,5	1,8778*	,06604	,000	1,6956	2,0600
	3,0	,2522*	,06604	,004	,0700	,4344

Based on observed means.
The error term is Mean Square(Error) = .020.
*. The mean difference is significant at the ,05 level.

Pertumbuhan

Tukey HSD[a,b]

		Subset			
Dosis	N	1	2	3	4
,0	9	1,3444			
1,5	9		1,6222		
3,0	9			3,2478	
4,5	9				3,5000
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .020.
a. Uses Harmonic Mean Sample Size = 9.000.
b. Alpha = ,05.

Lampiran 14. Hasil uji lanjut W-Tuckey pengaruh umur larva ikan kakap putih terhadap pertumbuhan larva ikan kakap putih

Multiple Comparisons

Tukey HSD

		Mean			95% Confidence Interval	
(I) Hari	(J) Hari	Difference (I-J)	Std. Error	Sig.	Lower Bound	Upper Bound
14	17	,0300	,05720	,860	-,1128	,1728
	20	-,1383	,05720	,059	-,2812	,0045
17	14	-,0300	,05720	,860	-,1728	,1128
	20	-,1683*	,05720	,019	-,3112	-,0255
20	14	,1383	,05720	,059	-,0045	,2812
	17	,1683*	,05720	,019	,0255	,3112

Based on observed means.
The error term is Mean Square(Error) = .020.
*. The mean difference is significant at the ,05 level.

Pertumbuhan

Tukey HSD[a,b]

		Subset	
Hari	N	1	2
17	12	2,3625	
14	12	2,3925	2,3925
20	12		2,5308
Sig.		,860	,059

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .020.

a. Uses Harmonic Mean Sample Size = 12.000.
b. Alpha = ,05.

Lampiran 15. Hasil analisis sintasan larva ikan kakap putih dengan menggunakan software spss

Descriptive Statistics

Dosis	Hari	Mean	Std. Deviation	N
,0	14	48,5000	10,21029	3
	17	49,0000	16,03901	3
	20	52,3333	3,75278	3
	Total	49,9444	9,85661	9
1,5	14	47,6667	7,75134	3
	17	53,5000	7,85812	3
	20	54,6667	6,11010	3
	Total	51,9444	7,09509	9
3,0	14	65,1667	5,00833	3
	17	72,5000	5,26783	3
	20	70,1667	6,80686	3
	Total	69,2778	5,94302	9
4,5	14	71,3333	4,31084	3
	17	70,8333	2,36291	3
	20	72,1667	6,00694	3
	Total	71,4444	3,92464	9
Total	14	58,1667	12,41028	12
	17	61,4583	13,44933	12
	20	62,3333	10,52342	12
	Total	60,6528	11,97367	36

Lampiran 16. Hasil analisis sintasan larva ikan kakap putih pada perlakuan dosis enzim papain

Dosis

			95% Confidence Interval	
Dosis	Mean	Std. Error	Lower Bound	Upper Bound
,0	49,944	2,535	44,712	55,177
1,5	51,944	2,535	46,712	57,177
3,0	69,278	2,535	64,045	74,510
4,5	71,444	2,535	66,212	76,677

Lampiran 17. Hasil analisis sintasan larva ikan kakap putih pada perlakuan umur larva ikan kakap putih

Hari

			95% Confidence Interval	
Hari	Mean	Std. Error	Lower Bound	Upper Bound
14	58,167	2,196	53,635	62,698
17	61,458	2,196	56,927	65,990
20	62,333	2,196	57,802	66,865

Lampiran 18. Hasil analisis sintasan larva ikan kakap putih pada kombinasi antara dosis enzim papain dengan umur larva ikan kakap putih

Dosis * Hari

				95% Confidence Interval	
Dosis	Hari	Mean	Std. Error	Lower Bound	Upper Bound

,0	14	48,500	4,391	39,437	57,563
	17	49,000	4,391	39,937	58,063
	20	52,333	4,391	43,270	61,396
1,5	14	47,667	4,391	38,604	56,730
	17	53,500	4,391	44,437	62,563
	20	54,667	4,391	45,604	63,730
3,0	14	65,167	4,391	56,104	74,230
	17	72,500	4,391	63,437	81,563
	20	70,167	4,391	61,104	79,230
4,5	14	71,333	4,391	62,270	80,396
	17	70,833	4,391	61,770	79,896
	20	72,167	4,391	63,104	81,230

Lampiran 19. Hasil uji lanjut W-Tuckey sintasan pada perlakuan dosis enzim papain

Multiple Comparisons

Tukey HSD

(I) Dosis	(J) Dosis	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
,0	1,5	-2,0000	3,58538	,943	-11,8907	7,8907
	3,0	-19,3333*	3,58538	,000	-29,2240	-9,4427
	4,5	-21,5000*	3,58538	,000	-31,3907	-11,6093
1,5	,0	2,0000	3,58538	,943	-7,8907	11,8907
	3,0	-17,3333*	3,58538	,000	-27,2240	-7,4427
	4,5	-19,5000*	3,58538	,000	-29,3907	-9,6093
3,0	,0	19,3333*	3,58538	,000	9,4427	29,2240
	1,5	17,3333*	3,58538	,000	7,4427	27,2240
	4,5	-2,1667	3,58538	,930	-12,0573	7,7240
4,5	,0	21,5000*	3,58538	,000	11,6093	31,3907
	1,5	19,5000*	3,58538	,000	9,6093	29,3907
	3,0	2,1667	3,58538	,930	-7,7240	12,0573

Based on observed means.
The error term is Mean Square(Error) = 57.847.
*. The mean difference is significant at the ,05 level.

Sintasan

Tukey HSD[a,b]

Dosis	N	Subset 1	Subset 2
,0	9	49,9444	
1,5	9	51,9444	
3,0	9		69,2778
4,5	9		71,4444
Sig.		,943	,930

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 57.847.
a. Uses Harmonic Mean Sample Size = 9.000.
b. Alpha = ,05.

Lampiran 20. Hasil uji lanjut W-Tuckey sintasan pada perlakuan umur larva

Multiple Comparisons

Tukey HSD

(I) Hari	(J) Hari	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
14	17	-3,2917	3,10503	,547	-11,0458	4,4625
	20	-4,1667	3,10503	,387	-11,9208	3,5875
17	14	3,2917	3,10503	,547	-4,4625	11,0458
	20	-,8750	3,10503	,957	-8,6291	6,8791
20	14	4,1667	3,10503	,387	-3,5875	11,9208
	17	,8750	3,10503	,957	-6,8791	8,6291

Based on observed means.
The error term is Mean Square(Error) = 57.847.

Sintasan

Tukey HSD[a,b]

Hari	N	Subset
		1
14	12	58,1667
17	12	61,4583
20	12	62,3333
Sig.		,387

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 57.847.
a. Uses Harmonic Mean Sample Size = 12.000.
b. Alpha = ,05.