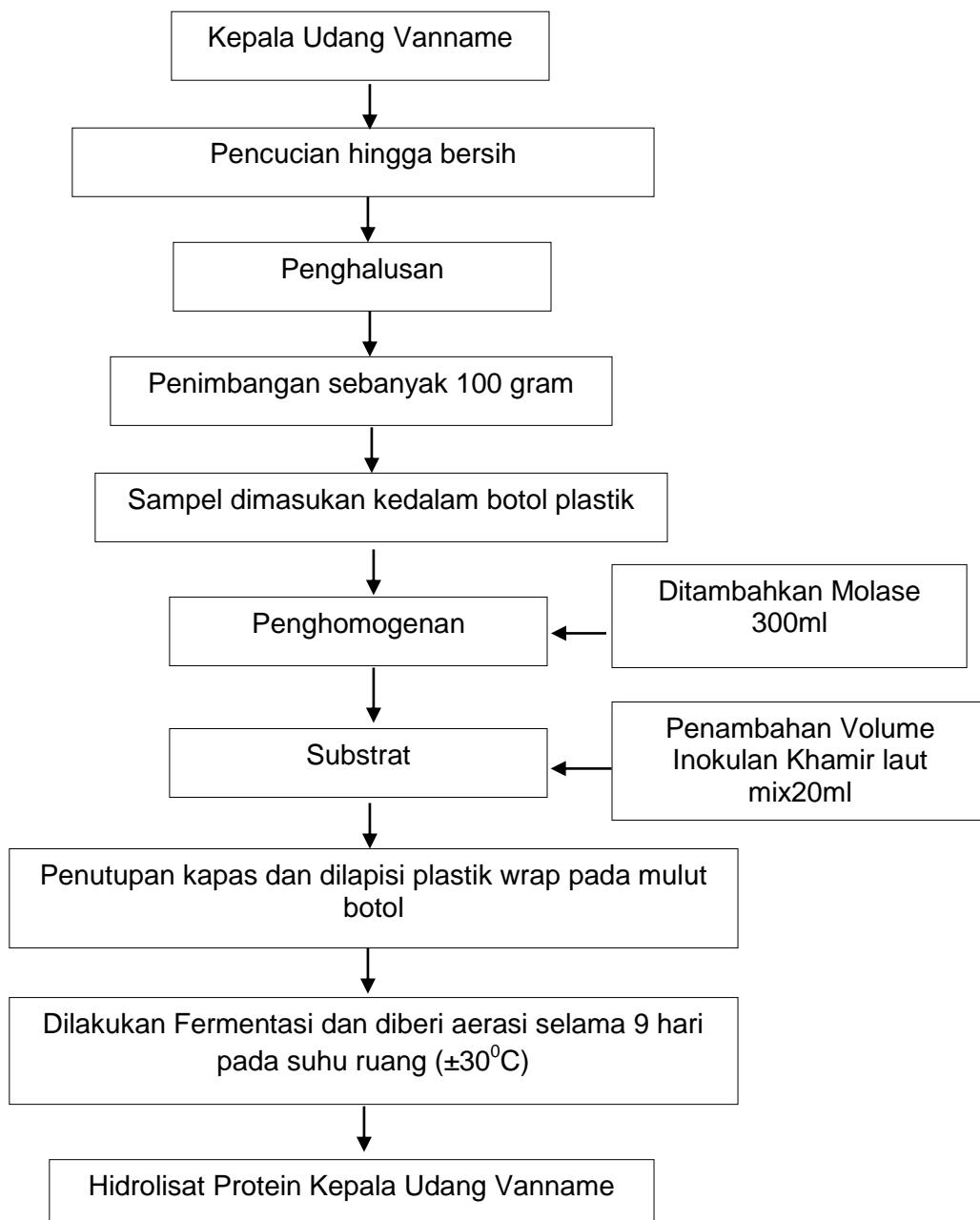


LAMPIRAN

Lampiran 1. Diagram Alir Pembuatan Hidrolisat Protein Kepala Udang

Vannname (Fathony, 2014 yang telah dimodifikasi)

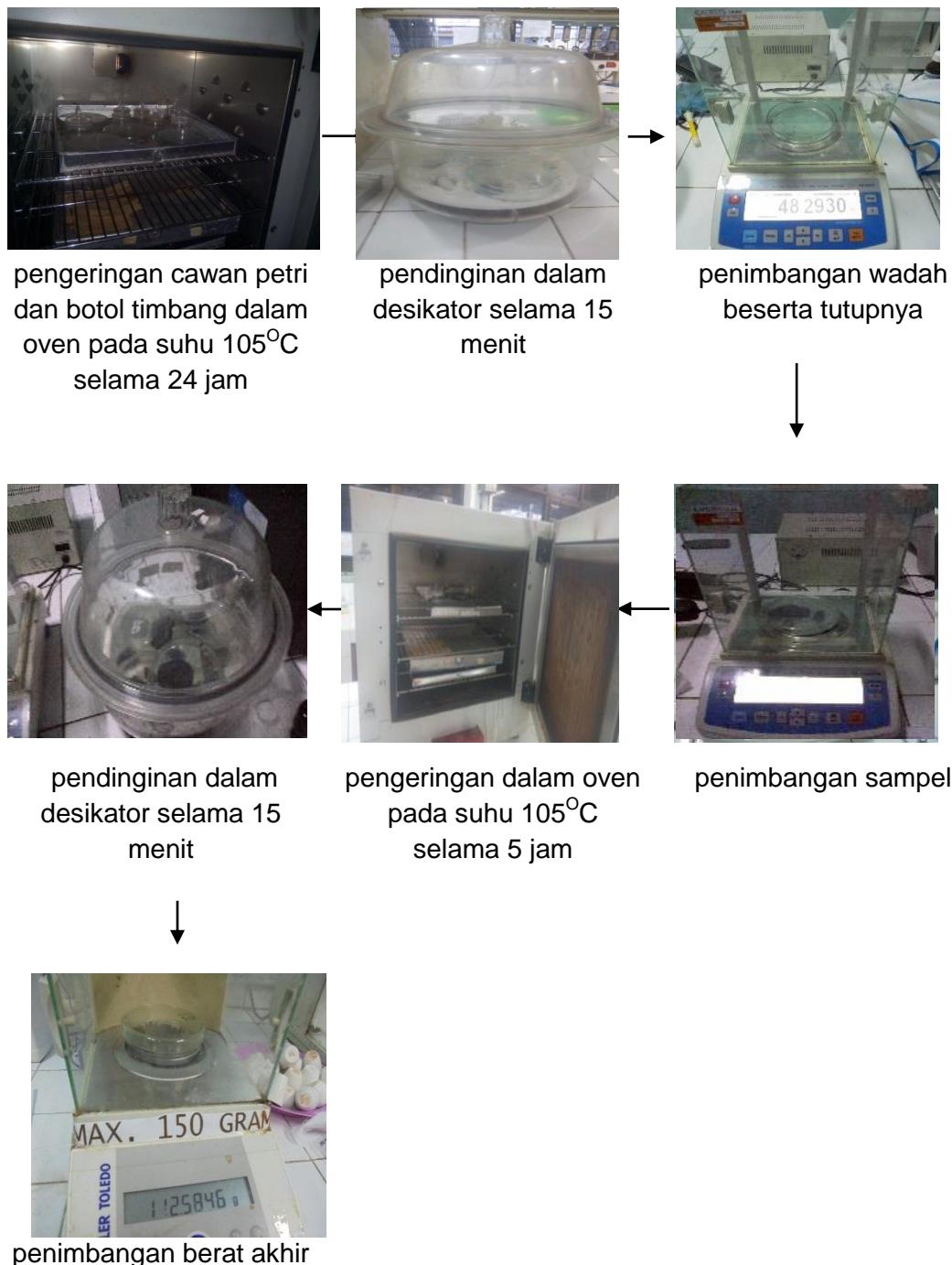


Lampiran 2. Pembuatan Hidrolisat Protein Kepala Udang Vanname

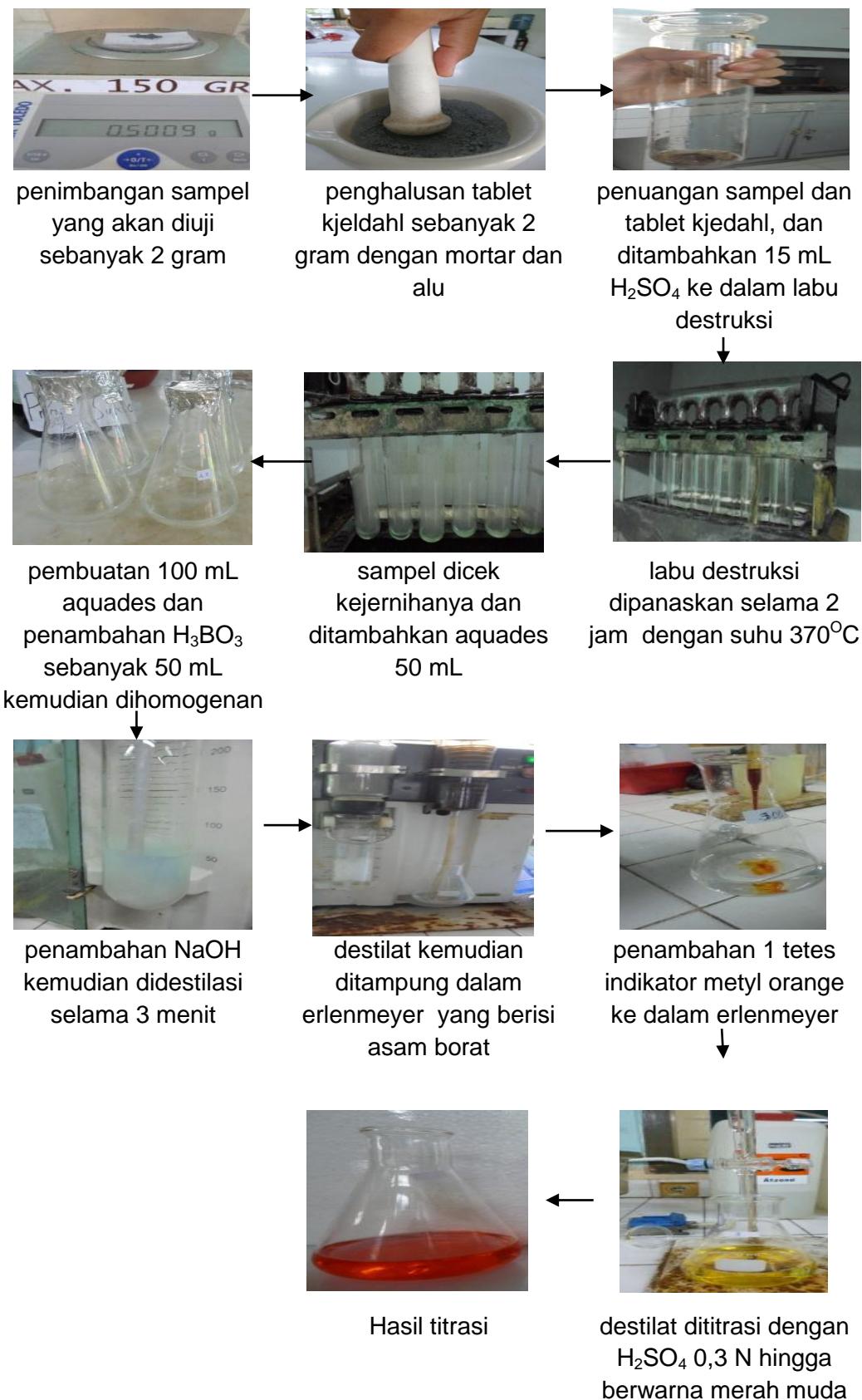


Lampiran 3. Penyimpanan Beku Hidrolisat Protein Kepala Udang Vanname

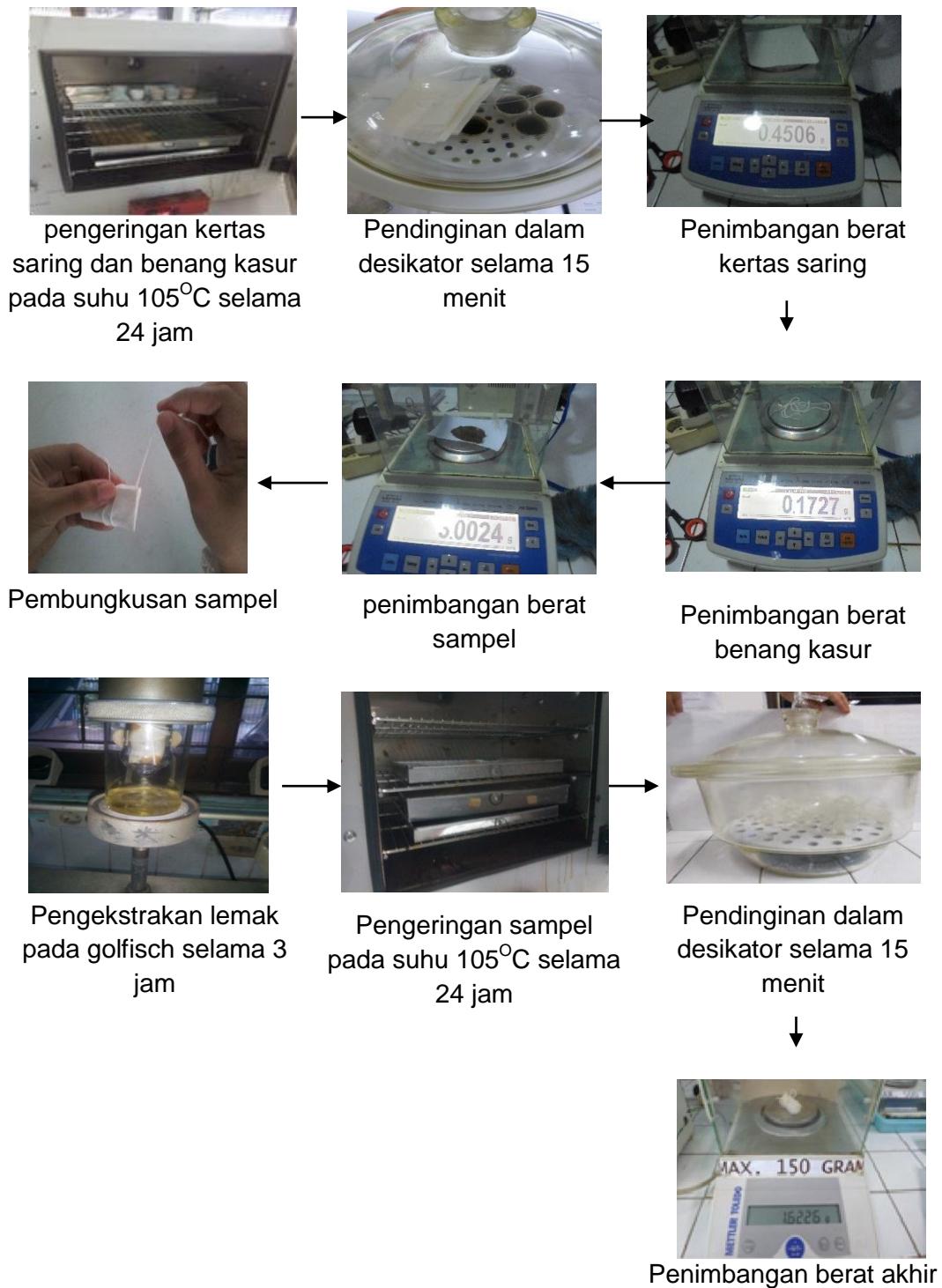


Lampiran 4. Analisis Kadar Air

Lampiran 5. Analisis Kadar Protein



Lampiran 6. Analisis Kadar Lemak



Lampiran 7. Analisis Kadar Abu



Lampiran 8. Data Pengamatan dan Analisis Data Kadar Air Hidrolisat Protein Kepala Udang Vanname yang Disimpan dalam Freezer.

Grafik Kadar Air	1	2	3	Rata-Rata	STDV
Kontrol	47,43%	46,83%	47,91%	47,39%	0,54%
30 Hari	51,50%	54,68%	52,86%	52,86%	1,82%
180 Hari	55,54%	55,68%	55,25%	55,49%	0,22%

Descriptive Staistics

Variable	Treatment	Std.			
		N	Sum	Mean	Deviation
Kadar Air	Kontrol	3	142,17	47,39	0,54110997
	30 Hari	3	158,59	52,86	1,815002296
	180 Hari	3	166,47	55,49	0,219317122
	Total	9	467,23	55,49	2,575429388

ANOVA

SK	Db	JK	KT	F Hit	F5%
Hari	2	102,4667556	51,23337778	42,28184202	5,14325285
Galat	6	7,270266667	1,211711111		
Total	8	109,7370222			

F Hitung >F5%, Perlakuan penyimpanan *freezer* pada kadar air hidrolisat protein kepala udang vanname berpengaruh secara signifikan

Nilai BNT :

$$\text{Nilai BNT}_{5\%} = t_{a(\text{db. galat})} \times \sqrt{\frac{2 \times \text{Kuadrat Total Galat}}{\text{ulangan}}}$$

$$\text{Nilai BNT}_{5\%} = t_{0,05(6)} \times \sqrt{\frac{2 \times 1,211711111}{3}}$$

$$\text{Nilai BNT}_{5\%} = 2,447 \times 0,8987$$

$$\text{Nilai BNT}_{5\%} = 2,199$$

Notasi

Hari	Rerata	Hasil	Notasi
Kontrol	47,39	49,589	A
Hari Ke- 30	52,86	55,059	B
Hari Ke- 180	55,49	57,689	B

Lampiran 9. Data Pengamatan dan Analisis Data Kadar Lemak Hidrolisat Protein Kepala Udang Vanname yang Disimpan dalam Freezer.

Grafik Kadar Lemak	1	2	3	Rata-Rata	STDV
Kontrol	1,64%	1,35%	2,55%	1,85%	0,63%
30 Hari	1,15%	1,27%	0,64%	1,02%	0,34%
180 Hari	0,36%	0,72%	0,95%	0,68%	0,30%

Descriptive Statistics

Variable	Treatment	Std.			
		N	Sum	Mean	Deviation
Kadar Lemak	Kontrol	3	5,54	1,85	0.626125653
	30 Hari	3	3,06	1,02	0.334514574
	180 Hari	3	2,03	0,68	0.297377426
	Total	9	10,63	3,54	1.258017652

ANOVA

SK	Db	JK	KT	F Hit	F5%
Hari	2	2.170155556	1.085077778	5.495301334	5,14325285
Galat	6	1.184733333	0.197455556		
Total	8	3.354888889			

F Hitung >F5%, Perlakuan penyimpanan freezer pada kadar lemak hidrolisat protein kepala udang vanname berpengaruh secara signifikan

Nilai BNT :

$$\text{Nilai BNT}_{5\%} = t_{a(\text{db. galat})} \times \sqrt{\frac{2 \times \text{Kuadrat Total Galat}}{\text{ulangan}}}$$

$$\text{Nilai BNT}_{5\%} = t_{0,05(6)} \times \sqrt{\frac{2 \times 0.197456}{3}}$$

$$\text{Nilai BNT}_{5\%} = 2,447 \times 0,363$$

$$\text{Nilai BNT}_{5\%} = 0,888$$

Notasi

Hari	Rerata	Hasil	Notasi
Hari Ke- 180	0,68	1,568	A
Hari Ke- 30	1,02	1,908	AB
Kontrol	1,85	2,738	B

Lampiran 10. Data Pengamatan dan Analisis Data Kadar Protein Hidrolisat Protein Kepala Udang Vanname yang Disimpan dalam Freezer.

Grafik Kadar Protein	1	2	3	Rata-Rata	STDV
Kontrol	27,00%	22,65%	24,92%	24,86%	2,18%
30 Hari	21,66%	20,61%	22,71%	21,66%	1,05%
180 Hari	21,89%	14,71%	17,51%	18,04%	3,62%

Descriptive Staistics

Variable	Treatment	Std.			
		N	Sum	Mean	Deviation
Kadar Protein	Kontrol	3	74,57	24,86	2,175691461
	30 Hari	3	64,98	21,66	1,05
	180 Hari	3	54,11	18,04	3,618858015
	Total	9	193,66	64,55	6,844549476

ANOVA

SK	Db	JK	KT	F Hit	F5%
Hari	2	69,85962222	34,92981111	5,534964998	5,14325285
Galat	6	37,86453333	6,310755556		
Total	8	107,7241556			

F Hitung >F5%, Perlakuan penyimpanan *freezer* pada kadar protein pada hidrolisat protein kepala udang vanname berpengaruh secara signifikan

Nilai BNT :

$$\text{Nilai BNT}_{5\%} = t_{a(\text{db. galat})} \times \sqrt{\frac{2 \times \text{Kuadrat Total Galat}}{\text{ulangan}}}$$

$$\text{Nilai BNT}_{5\%} = t_{0,05(6)} \times \sqrt{\frac{2 \times 6,310755556}{3}}$$

$$\text{Nilai BNT}_{5\%} = 2,447 \times 2,0511$$

$$\text{Nilai BNT}_{5\%} = 5,019$$

Notasi

Hari	Rerata	Hasil	Notasi
Hari Ke- 180	18,04	23,059	A
Hari Ke- 30	21,66	26,679	AB
Kontrol	24,86	29,879	B

Lampiran 11. Data Pengamatan dan Analisis Data Kadar Abu Hidrolisat Protein Kepala Udang Vanname yang Disimpan dalam Freezer.

Grafik Kadar Abu	1	2	3	Rata-Rata	STDV
Kontrol	11,33%	10,75%	11,06%	11,05%	0,29%
30 Hari	10,90%	11,91%	9,52%	10,78%	1,20%
180 Hari	9,68%	8,75%	8,92%	9,12%	0,50%

Descriptive Staistics

Variable	Treatment	Std.			
		N	Sum	Mean	Deviation
Kadar Abu	Kontrol	3	33,14	11,05	0,290229794
	30 Hari	3	32,33	10,78	1,199763866
	180 Hari	3	27,35	9,12	0,495210393
	Total	9	92,82	30,94	1,985204053

ANOVA

SK	Db	JK	KT	F Hit	F5%
Hari	2	6,5534	3,2767	5,55718243	5,14325285
Galat	6	3,5378	0,5896333333		
Total	8	10,0912			

F Hitung >F5%, Perlakuan penyimpanan freezer pada kadar abu hidrolisat protein kepala udang vanname berpengaruh secara signifikan

Nilai BNT :

$$\text{Nilai BNT}_{5\%} = t_{a(\text{db. galat})} \times \sqrt{\frac{2 \times \text{Kuadrat Total Galat}}{\text{ulangan}}}$$

$$\text{Nilai BNT}_{5\%} = t_{0,05(6)} \times \sqrt{\frac{2 \times 0,5896333333}{3}}$$

$$\text{Nilai BNT}_{5\%} = 2,447 \times 0,6269$$

$$\text{Nilai BNT}_{5\%} = 1,534$$

Notasi

Hari	Rerata	Hasil	Notasi
Hari Ke- 180	9,12	10,654	A
Hari Ke- 30	10,78	12,314	AB
Kontrol	11,05	12,584	B

