7. LAMPIRAN

Lampiran 1. Tahapan Pemberian Kromanon Deamina

- Pembersihan tempat minum

- Pengambilan kromanon deamina

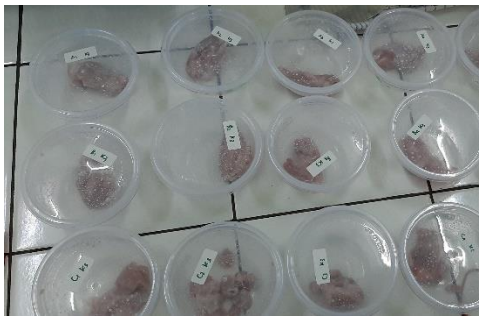
- Pemberian kromanon deamina dalam wadah minum

Lampiran 2. Foto Kondisi Kandang

Lampiran 3. Proses Pemberian Konsentrasi Marinasi Hingga Pemanggangan

- Persiapan bahan

- Proses marinasi

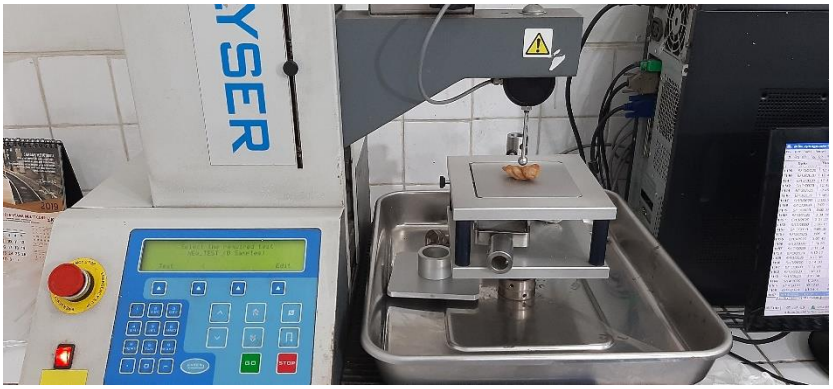


- Proses pemanggangan

Lampiran 4. Foto Pengujian Setiap Parameter

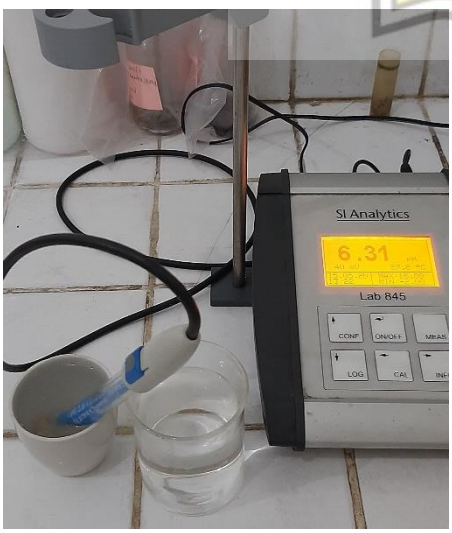
- Pengukuran Kadar Protein

- Pengukuran Tekstur



- Pengukuran Kadar Air

- Pengukuran pH



- Pengukuran Warna

Lampiran 5. Hasil Analisis Statistik

a. Hasil Pengukuran Parameter Fisikokima Setelah *Thawing*

- Hasil Uji Normalitas Tiap Parameter Setelah *Thawing*

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Protein	,184	15	,183	,927	15	,242
Kadar_Air	,176	15	,200*	,941	15	,398
pH	,152	15	,200*	,940	15	,379
Hardness	,104	15	,200*	,966	15	,801
L	,122	15	,200*	,955	15	,612
a	,104	15	,200*	,971	15	,869
b	,146	15	,200*	,934	15	,310

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

a. Lilliefors Significance Correction

- Hasil Uji Homogenitas Tiap Parameter Setelah *Thawing*

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Protein	,386	2	12	,688
Kadar_Air	2,234	2	12	,150
pH	,766	2	12	,486
Hardness	,018	2	12	,983
L	,391	2	12	,685
a	,430	2	12	,660
b	,236	2	12	,793

- Hasil *One Way Anova* Pada Tiap Parameter Setelah *Thawing*

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Protein	Between Groups	8,356	2	4,178	11,575	,002
	Within Groups	4,331	12	,361		
	Total	12,687	14			
Kadar_Air	Between Groups	,332	2	,166	,685	,523
	Within Groups	2,907	12	,242		
	Total	3,239	14			
pH	Between Groups	,024	2	,012	,215	,810
	Within Groups	,665	12	,055		
	Total	,689	14			
Hardness	Between Groups	556276,134	2	278138,067	2,168	,157
	Within Groups	1539844,571	12	128320,381		
	Total	2096120,704	14			
L	Between Groups	5,491	2	2,746	,156	,857
	Within Groups	211,370	12	17,614		
	Total	216,861	14			
a	Between Groups	,123	2	,062	,141	,870
	Within Groups	5,255	12	,438		
	Total	5,379	14			
b	Between Groups	1,226	2	,613	,114	,893
	Within Groups	64,525	12	5,377		
	Total	65,751	14			

Protein

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05	
		1	2
Kontrol	5	17,5844	
0,025 cc/kg	5	18,1042	
0,05 cc/kg	5		19,3622
Sig.		,196	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

Kadar_Air

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05
		1
0,05 cc/kg	5	74,6070
0,025 cc/kg	5	74,7746
Kontrol	5	74,9710
Sig.		,288

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

pH

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05
		1
Kontrol	5	6,1726
0,025 cc/kg	5	6,2372
0,05 cc/kg	5	6,2682
Sig.		,553

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

Hardness

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05
		1
Kontrol	5	2325,0970
0,025 cc/kg	5	2365,1698
0,05 cc/kg	5	2752,1696
Sig.		,097

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

L

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05
		1
0,05 cc/kg	5	51,7198
0,025 cc/kg	5	52,5364
Kontrol	5	53,1992
Sig.		,606

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

a

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05
		1
Kontrol	5	5,7556
0,025 cc/kg	5	5,9070
0,05 cc/kg	5	5,9722
Sig.		,632

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

b

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05
		1
0,05 cc/kg	5	11,4182
Kontrol	5	11,9702
0,025 cc/kg	5	12,0674
Sig.		,681

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

b. Hasil Pengukuran Parameter Fisikokimia Setelah Pemanggangan

- Hasil Uji Normalitas Tiap Parameter Setelah Pemanggangan

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Tekstur	,111	45	,200*	,944	45	,031
Warna_L	,077	45	,200*	,970	45	,294
Warna_a	,072	45	,200*	,968	45	,245
Warna_b	,124	45	,082	,953	45	,066
KA	,072	45	,200*	,968	45	,247
PH	,174	45	,002	,891	45	,000
Protein	,116	45	,151	,984	45	,785

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

a. Lilliefors Significance Correction

- Hasil Uji Homogenitas Tiap Parameter Setelah Pemanggangan

Levene's Test of Equality of Error Variances[a]

	F	df1	df2	Sig.
Tekstur	3,197	8	36	,008
Warna_L	,932	8	36	,503
Warna_a	3,042	8	36	,010
Warna_b	1,108	8	36	,381
KA	,292	8	36	,964
PH	1,146	8	36	,358
Protein	2,132	8	36	,058

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

a. Design: Intercept + Kons_Marinasi + Kons_Kromanon + Kons_Marinasi * Kons_Kromanon

- Hasil *Two Way* Anova Kadar Protein

Tests of Between-Subjects Effects

Dependent Variable: Protein

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	233,839[a]	8	29,230	3,057	,010
Intercept	6432,089	1	6432,089	672,654	,000
Kons_Kromanon	43,175	2	21,587	2,258	,119
Kons_Marinasi	174,096	2	87,048	9,103	,001
Kons_Kromanon * Kons_Marinasi	16,569	4	4,142	,433	,784
Error	344,241	36	9,562		
Total	7010,169	45			
Corrected Total	578,080	44			

a. R Squared = ,405 (Adjusted R Squared = ,272)

Protein

Duncan[a,b,c]

Kons_Kromanon	N	Subset 1
Kontrol	15	10,6033
0,025 cc/kg	15	12,3713
0,05 cc/kg	15	12,8920
Sig.		,062

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 9,562.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

Protein

Duncan[a,b,c]

Kons_Marinasi	N	Subset 1	Subset 2
Jeruk 5% ; garam 5%	15	9,3267	
Jeruk 7% ; garam 3%	15		12,4827
Kontrol	15		14,0573
Sig.		1,000	,172

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 9,562.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

- Hasil *Two Way* Anova Tekstur

Tests of Between-Subjects Effects

Dependent Variable: Tekstur

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	8632094,75[a]	8	1079011,843	2,251	,046
Intercept	121091723,1	1	121091723,1	252,604	,000
Kons_Kromanon	980549,449	2	490274,725	1,023	,370
Kons_Marinasi	6819516,734	2	3409758,367	7,113	,002
Kons_Kromanon * Kons_Marinasi	832028,562	4	208007,141	,434	,783
Error	17257428,64	36	479373,018		
Total	146981246,5	45			
Corrected Total	25889523,38	44			

a. R Squared = ,333 (Adjusted R Squared = ,185)

Tekstur

Duncan[a,b,c]

Kons_Kromanon	N	Subset 1
0,05 cc/kg	15	1431,7793
Kontrol	15	1738,2665
0,025 cc/kg	15	1751,1679
Sig.		,242

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 479373,018.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

Tekstur

Duncan[a,b,c]

Kons_Marinasi	N	Subset 1	Subset 2
Kontrol	15	1197,5147	
Jeruk 5% ; garam 5%	15	1578,6471	
Jeruk 7% ; garam 3%	15		2145,0520
Sig.		,140	1,000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 479373,018.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

- Hasil *Two Way* Anova Kadar Air

Tests of Between-Subjects Effects

Dependent Variable: KA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	564,057[a]	8	70,507	2,194	,051
Intercept	14132,763	1	14132,763	439,864	,000
Kons_Kromanon	,181	2	,091	,003	,997
Kons_Marinasi	424,034	2	212,017	6,599	,004
Kons_Kromanon * Kons_Marinasi	139,842	4	34,961	1,088	,377
Error	1156,676	36	32,130		
Total	15853,496	45			
Corrected Total	1720,733	44			

a. R Squared = ,328 (Adjusted R Squared = ,178)

KA

Duncan[a,b,c]

Kons_Kromanon	N	Subset 1
Kontrol	15	17,6333
0,05 cc/kg	15	17,7527
0,025 cc/kg	15	17,7793
Sig.		,948

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 32,130.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

KA

Duncan[a,b,c]

Kons_Marinasi	N	Subset 1	Subset 2
Jeruk 7% ; garam 3%	15	13,6413	
Jeruk 5% ; garam 5%	15		18,4787
Kontrol	15		21,0453
Sig.		1,000	,223

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 32,130.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

- Hasil *Two Way* Anova pH

Tests of Between-Subjects Effects

Dependent Variable: PH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	44,161[a]	8	5,520	22,655	,000
Intercept	1762,441	1	1762,441	7233,394	,000
Kons_Kromanon	,578	2	,289	1,185	,317
Kons_Marinasi	42,417	2	21,209	87,044	,000
Kons_Kromanon * Kons_Marinasi	1,166	4	,291	1,196	,329
Error	8,772	36	,244		
Total	1815,373	45			
Corrected Total	52,932	44			

a. R Squared = ,834 (Adjusted R Squared = ,797)

PH

Duncan[a,b,c]

Kons_Kromanon	N	Subset 1
0,025 cc/kg	15	6,1167
0,05 cc/kg	15	6,2640
Kontrol	15	6,3940
Sig.		,155

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,244.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

PH

Duncan[a,b,c]

Kons_Marinasi	N	Subset 1	Subset 2
Jeruk 7% ; garam 3%	15	5,4340	
Jeruk 5% ; garam 5%	15	5,7193	
Kontrol	15		7,6213
Sig.		,122	1,000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,244.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

- Hasil *Two Way* Anova Warna

Tests of Between-Subjects Effects

Dependent Variable: Warna_L

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	902,518[a]	8	112,815	11,810	,000
Intercept	143410,661	1	143410,661	15013,214	,000
Kons_Kromanon	147,558	2	73,779	7,724	,002
Kons_Marinasi	653,918	2	326,959	34,228	,000
Kons_Kromanon * Kons_Marinasi	101,042	4	25,261	2,644	,049
Error	343,883	36	9,552		
Total	144657,062	45			
Corrected Total	1246,401	44			

a. R Squared = ,724 (Adjusted R Squared = ,663)

Warna_L

Duncan[a,b,c]

Kons_Kromanon	N	Subset 1	Subset 2
0,05 cc/kg	15	54,9000	
0,025 cc/kg	15	55,4653	
Kontrol	15		58,9927
Sig.		,619	1,000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 9,552.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

Warna_L

Duncan[a,b,c]

Kons_Marinasi	N	Subset 1	Subset 2
Jeruk 5% ; garam 5%	15	53,2627	
Jeruk 7% ; garam 3%	15	54,2840	
Kontrol	15		61,8113
Sig.		,371	1,000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 9,552.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

Tests of Between-Subjects Effects

Dependent Variable: Warna_a

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	98,326[a]	8	12,291	6,190	,000
Intercept	1144,585	1	1144,585	576,400	,000
Kons_Kromanon	,635	2	,317	,160	,853
Kons_Marinasi	78,468	2	39,234	19,758	,000
Kons_Kromanon * Kons_Marinasi	19,224	4	4,806	2,420	,066
Error	71,487	36	1,986		
Total	1314,398	45			
Corrected Total	169,813	44			

a. R Squared = ,579 (Adjusted R Squared = ,485)

Warna_a

Duncan[a,b,c]

Kons_Kromanon	N	Subset 1
0,05 cc/kg	15	4,8827
0,025 cc/kg	15	5,0813
Kontrol	15	5,1660
Sig.		,609

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1,986.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

Warna_a

Duncan[a,b,c]

Kons_Marinasi	N	Subset 1	Subset 2
Kontrol	15	3,2533	
Jeruk 5% ; garam 5%	15		5,4773
Jeruk 7% ; garam 3%	15		6,3993
Sig.		1,000	,082

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1,986.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

Tests of Between-Subjects Effects

Dependent Variable: Warna_b

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	111,708[a]	8	13,963	1,351	,251
Intercept	10025,645	1	10025,645	969,706	,000
Kons_Kromanon	28,737	2	14,368	1,390	,262
Kons_Marinasi	4,582	2	2,291	,222	,802
Kons_Kromanon * Kons_Marinasi	78,389	4	19,597	1,896	,132
Error	372,198	36	10,339		
Total	10509,551	45			
Corrected Total	483,906	44			

a. R Squared = ,231 (Adjusted R Squared = ,060)

Warna_b

Duncan[a,b,c]

Kons_Kromanon	N	Subset 1
0,025 cc/kg	15	13,8000
Kontrol	15	15,4080
0,05 cc/kg	15	15,5707
Sig.		,163

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 10,339.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

Warna_b

Duncan[a,b,c]

Kons_Marinasi	N	Subset 1
Jeruk 7% ; garam 3%	15	14,6427
Jeruk 5% ; garam 5%	15	14,7640
Kontrol	15	15,3720
Sig.		,564

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 10,339.

a. Uses Harmonic Mean Sample Size = 15,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = ,05.

c. Hasil Uji Korelasi Antar Parameter Setelah Pemanggngan

Correlations

		Tekstur	Warna_L	Warna_a	Warna_b	KA	PH	Protein
Tekstur	Pearson Correlation	1	-,366*	,464**	-,239	-,122	-,391**	-,046
	Sig. (2-tailed)		,013	,001	,113	,426	,008	,762
	N	45	45	45	45	45	45	45
Warna_L	Pearson Correlation	-,366*	1	-,547**	,256	,341*	,703**	,259
	Sig. (2-tailed)	,013		,000	,090	,022	,000	,086
	N	45	45	45	45	45	45	45
Warna_a	Pearson Correlation	,464**	-,547**	1	,086	-,348*	-,573**	-,107
	Sig. (2-tailed)	,001	,000		,576	,019	,000	,485
	N	45	45	45	45	45	45	45
Warna_b	Pearson Correlation	-,239	,256	,086	1	,066	,013	,202
	Sig. (2-tailed)	,113	,090	,576		,667	,933	,182
	N	45	45	45	45	45	45	45
KA	Pearson Correlation	-,122	,341*	-,348*	,066	1	,530**	,117
	Sig. (2-tailed)	,426	,022	,019	,667		,000	,446
	N	45	45	45	45	45	45	45
PH	Pearson Correlation	-,391**	,703**	-,573**	,013	,530**	1	,369*
	Sig. (2-tailed)	,008	,000	,000	,933	,000		,013
	N	45	45	45	45	45	45	45
Protein	Pearson Correlation	-,046	,259	-,107	,202	,117	,369*	1
	Sig. (2-tailed)	,762	,086	,485	,182	,446	,013	
	N	45	45	45	45	45	45	45

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).

Lampiran 6. Hasil Plagscan

PLAGIARISM CHECK.ORG

8.74% PLAGIARISM APPROXIMATELY

Report #13203585

27 28 PENDAHULUAN Latar Belakang Ayam broiler merupakan salah satu sumber protein hewani yang banyak dikonsumsi oleh masyarakat Indonesia. 6 9 Pada 22 23 24 daging ayam broiler mengandung gizi yang tinggi, rasa dan aroma yang enak diikuti tekstur yang lunak serta harga yang relatif murah (Suradi, 2006). Peningkatan kualitas daging ayam dapat dilakukan dengan memperhatikan sistem peternakan pada aspek kenyamanan dan kesehatan ternak serta pemakaian bibit unggul dan pakan yang berkualitas (Umam et al., 2015). Pada penelitian yang telah dilakukan, pemberian kromanon deamina sebagai tambahan dalam pakan ternak dapat memberikan beberapa dampak yaitu meningkatnya kadar protein sebanyak 1-3% dan menurunkan kadar lemak 0,8-1,2% pada daging ayam broiler. Kromanon deamina diperoleh dari buah maja (Aegle marmelos L.) yang telah mengalami proses ekstraksi (Widjaya, 2015). Produksi daging ayam broiler segar terus meningkat setiap tahunnya. Produksi karkas broiler nasional pada tahun

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