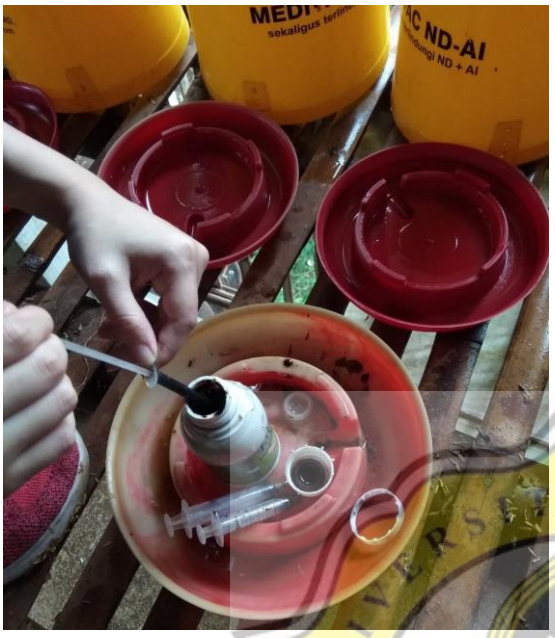
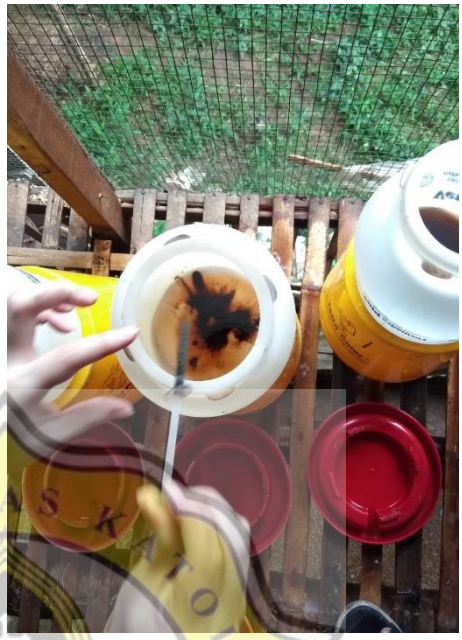
7. LAMPIRAN

Lampiran 1. Pengaplikasian Kromanon Deamina





Lampiran 2.Kondisi Kandang Ayam

Lampiran 3. Pengaplikasian Konsentrasi Marinasi Dan Pemanggangan

- Persiapan bahan

- Proses marinasi

- Proses pemanggangan

Lampiran 4. Pengujian Setiap Parameter

- Pengukuran Tekstur

Pengukuran Warna

- Pengukuran Kadar Protein

Pengukuran pH

- Pengukuran Kadar Air

Lampiran 5. Hasil Analisa Statistik

a. Hasil Pengukuran Parameter Fisikokimia 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 Uji One Way Anova
- Protein

Proteindengan Konsentrasi Kromanon Deamina

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 dengan Konsentrasi Kromanon Deamina

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 dengan Konsentrasi Kromanon Deamina

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.

Tekstur dengan Konsentrasi Kromanon Deamina

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.

Warna
L* dengan Konsentrasi Kromanon Deamina

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* dengan Konsentrasi Kromanon Deamina

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* dengan Konsentrasi Kromanon Deamina

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	.174	45	.002	.880	45	.000
WARNA_L	.122	45	.091	.953	45	.068
WARNA_a	.129	45	.057	.889	45	.000
WARNA_b	.068	45	.200*	.969	45	.274
Prot	.084	45	.200*	.980	45	.630
KA	.144	45	.021	.955	45	.076
PH	.105	45	.200*	.954	45	.070

*. 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	1.700	8	36	.132
WARNA_L	1.921	8	36	.087
WARNA_a	1.695	8	36	.133
WARNA_b	.835	8	36	.578
Prot	1.452	8	36	.209
KA	1.876	8	36	.095
PH	1.490	8	36	.195

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

a. Design: Intercept + Konsentrasi + Kromanon + Konsentrasi * Kromanon

- Hasil Uji Two Way Anova
- Protein

Tests of Between-Subjects Effects

Dependent Variable: Prot

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	181.183[a]	8	22.648	6.844	.000
Intercept	4500.800	1	4500.800	1360.068	.000
Konsentrasi	120.789	2	60.395	18.250	.000
Kromanon	2.896	2	1.448	.438	.649
Konsentrasi * Kromanon	57.498	4	14.374	4.344	.006
Error	119.133	36	3.309		
Total	4801.116	45			
Corrected Total	300.316	44			

a. R Squared = .603 (Adjusted R Squared = .515)

Prot

Duncan[a,b,c]

Kromanon	N	Subset 1
0,025 cc/kg	15	9.6933
Kontrol	15	9.9947
0,05 cc/kg	15	10.3147
Sig.		.385

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square (Error) = 3,309.

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.

Prot

Duncan[a,b,c]

Konsentrasi	N	Subset 1	Subset 2
Belimbing Wuluh 7,5% ; garam 2,5%	15	7.7340	
Belimbing Wuluh 2,5% ; garam 7,5%	15		10.7193
Kontrol	15		11.5493
Sig.		1.000	.220

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 3,309.

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.

- Kadar Air

Tests of Between-Subjects Effects

Dependent Variable: KA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	101.566[a]	8	12.696	.569	.796
Intercept	9655.376	1	9655.376	432.771	.000
Konsentrasi	47.092	2	23.546	1.055	.359
Kromanon	4.326	2	2.163	.097	.908
Konsentrasi * Kromanon	50.149	4	12.537	.562	.692
Error	803.180	36	22.311		
Total	10560.122	45			
Corrected Total	904.747	44			

a. R Squared = .112 (Adjusted R Squared = -.085)

KA

Duncan[a,b,c]

Kromanon	N	Subset 1
0,025 cc/kg	15	14.2647
Kontrol	15	14.6553
0,05 cc/kg	15	15.0240
Sig.		.682

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square (Error) = 22,311.

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]

Konsentrasi	N	Subset 1
Belimbing Wuluh 2,5% ; garam 7,5%	15	13.9153
Kontrol	15	13.9340
Belimbing Wuluh 7,5% ; garam 2,5%	15	16.0947
Sig.		.241

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 22,311.

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

Tests of Between-Subjects Effects

Dependent Variable: PH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.051[a]	8	.131	1.874	.095
Intercept	1788.949	1	1788.949	25522.387	.000
Konsentrasi	.949	2	.475	6.771	.003
Kromanon	.009	2	.004	.061	.941
Konsentrasi * Kromanon	.093	4	.023	.332	.854
Error	2.523	36	.070		
Total	1792.524	45			
Corrected Total	3.574	44			

a. R Squared = .294 (Adjusted R Squared = .137)

PH

Duncan[a,b,c]

Kromanon	N	Subset 1
0,05 cc/kg	15	6.2860
0,025 cc/kg	15	6.3113
Kontrol	15	6.3180
Sig.		.758

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square (Error) = ,070.

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]

Konsentrasi	N	Subset 1	Subset 2
Belimbing Wuluh 7,5% ; garam 2,5%	15	6.1653	
Kontrol	15	6.2447	
Belimbing Wuluh 2,5% ; garam 7,5%	15		6.5053
Sig.		.417	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,070.

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

Tests of Between-Subjects Effects

Dependent Variable: Tekstur

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	6274629.40[a]	8	784328.675	1.155	.352
Intercept	101423594.3	1	101423594.3	149.374	.000
Konsentrasi	1044845.680	2	522422.840	.769	.471
Kromanon	3197728.046	2	1598864.023	2.355	.109
Konsentrasi * Kromanon	2032055.676	4	508013.919	.748	.566
Error	24443735.84	36	678992.662		
Total	132141959.6	45			
Corrected Total	30718365.25	44			

a. R Squared = .204 (Adjusted R Squared = .027)

Tekstur

Duncan[a,b,c]

Kromanon	N	Subset	
		1	2
0,05 cc/kg	15	1158.4953	
0,025 cc/kg	15	1536.8047	1536.8047
Kontrol	15		1808.5560
Sig.		.217	.372

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 678992,662.

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]

Konsentrasi	N	Subset
		1
Kontrol	15	1306.2387
Belimbing Wuluh 7,5% ; garam 2,5%	15	1519.4627
Belimbing Wuluh 2,5% ; garam 7,5%	15	1678.1547
Sig.		.252

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 678992,662.

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*

Tests of Between-Subjects Effects

Dependent Variable: WARNA_L

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	193.153[a]	8	24.144	.681	.705
Intercept	134273.439	1	134273.439	3787.395	.000
Konsentrasi	31.402	2	15.701	.443	.646
Kromanon	66.090	2	33.045	.932	.403
Konsentrasi * Kromanon	95.661	4	23.915	.675	.614
Error	1276.298	36	35.453		
Total	135742.890	45			
Corrected Total	1469.451	44			

a. R Squared = .131 (Adjusted R Squared = -.062)

WARNA_L

Duncan[a,b,c]

Kromanon	N	Subset 1
0,05 cc/kg	15	53.0133
Kontrol	15	54.9247
0,025 cc/kg	15	55.9360
Sig.		.213

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square (Error) = 35,453.

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]

Konsentrasi	N	Subset 1
Belimbing Wuluh 2,5% ; garam 7,5%	15	53.5033
Kontrol	15	54.8633
Belimbing Wuluh 7,5% ; garam 2,5%	15	55.5073
Sig.		.392

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 35,453.

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*

Tests of Between-Subjects Effects

Dependent Variable: WARNA_a

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	46.655[a]	8	5.832	1.169	.344
Intercept	1085.945	1	1085.945	217.603	.000
Konsentrasi	32.569	2	16.284	3.263	.050
Kromanon	2.831	2	1.415	.284	.755
Konsentrasi * Kromanon	11.256	4	2.814	.564	.690
Error	179.658	36	4.990		
Total	1312.257	45			
Corrected Total	226.312	44			

a. R Squared = .206 (Adjusted R Squared = .030)

WARNA_a

Duncan[a,b,c]

Kromanon	N	Subset 1
0,025 cc/kg	15	4.5593
Kontrol	15	5.0600
0,05 cc/kg	15	5.1180
Sig.		.524

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square (Error) = 4,990.

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]

Konsentrasi	N	Subset 1	Subset 2
Belimbing Wuluh 7,5% ; garam 2,5%	15	4.1933	
Belimbing Wuluh 2,5% ; garam 7,5%	15	4.4367	
Kontrol	15		6.1073
Sig.		.767	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 4,990.

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*

Tests of Between-Subjects Effects

Dependent Variable: WARNA_b

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	225.586[a]	8	28.198	2.686	.020
Intercept	9333.504	1	9333.504	888.966	.000
Konsentrasi	62.547	2	31.273	2.979	.064
Kromanon	28.733	2	14.366	1.368	.267
Konsentrasi * Kromanon	134.307	4	33.577	3.198	.024
Error	377.974	36	10.499		
Total	9937.065	45			
Corrected Total	603.560	44			

a. R Squared = .374 (Adjusted R Squared = .235)

WARNA_b

Duncan[a,b,c]

Kromanon	N	Subset 1
Kontrol	15	13.3547
0,05 cc/kg	15	14.5573
0,025 cc/kg	15	15.2933
Sig.		.130

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square (Error) = 10,499.

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]

Konsentrasi	N	Subset 1	Subset 2
Kontrol	15	13.5367	
Belimbing Wuluh 7,5% ; garam 2,5%	15	13.6000	
Belimbing Wuluh 2,5% ; garam 7,5%	15		16.0687
Sig.		.958	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 10,499.

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.

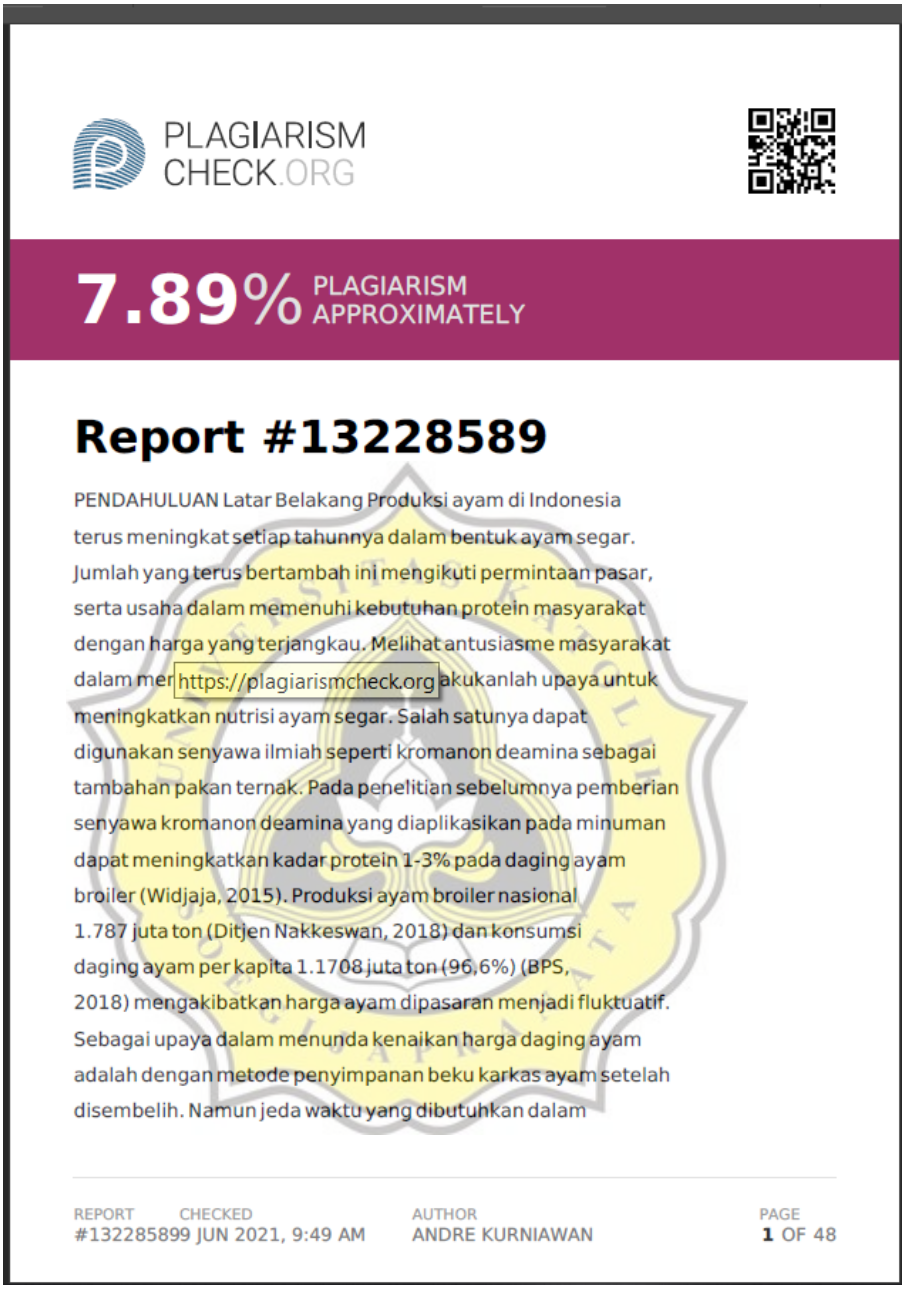
c. Hasil Uji Korelasi Antar Parameter Setelah Pemangganganm.

Correlations

		Tekstur	WARNA_L	WARNA_a	WARNA_b	Prot	KA	PH
Tekstur	Pearson Correlation	1	.118	-.205	-.207	-.011	-.243	.183
	Sig. (2-tailed)		.440	.177	.173	.942	.107	.230
	N	45	45	45	45	45	45	45
WARNA_L	Pearson Correlation	.118	1	-.307*	.315*	-.104	.070	-.026
	Sig. (2-tailed)	.440		.040	.035	.495	.648	.864
	N	45	45	45	45	45	45	45
WARNA_a	Pearson Correlation	-.205	-.307*	1	.286	.201	-.057	-.105
	Sig. (2-tailed)	.177	.040		.057	.185	.709	.491
	N	45	45	45	45	45	45	45
WARNA_b	Pearson Correlation	-.207	.315*	.286	1	.158	-.054	.166
	Sig. (2-tailed)	.173	.035	.057		.299	.727	.277
	N	45	45	45	45	45	45	45
Prot	Pearson Correlation	-.011	-.104	.201	.158	1	-.230	.267
	Sig. (2-tailed)	.942	.495	.185	.299		.129	.076
	N	45	45	45	45	45	45	45
KA	Pearson Correlation	-.243	.070	-.057	-.054	-.230	1	.171
	Sig. (2-tailed)	.107	.648	.709	.727	.129		.261
	N	45	45	45	45	45	45	45
PH	Pearson Correlation	.183	-.026	-.105	.166	.267	.171	1
	Sig. (2-tailed)	.230	.864	.491	.277	.076	.261	
	N	45	45	45	45	45	45	45

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

Lampiran 6. Hasil Plagscan



PLAGIARISM CHECK.ORG

7.89% PLAGIARISM APPROXIMATELY

Report #13228589

PENDAHULUAN Latar Belakang Produksi ayam di Indonesia terus meningkat setiap tahunnya dalam bentuk ayam segar. Jumlah yang terus bertambah ini mengikuti permintaan pasar, serta usaha dalam memenuhi kebutuhan protein masyarakat dengan harga yang terjangkau. Melihat antusiasme masyarakat dalam mer https://plagiarismcheck.org akukanlah upaya untuk meningkatkan nutrisi ayam segar. Salah satunya dapat digunakan senyawa ilmiah seperti kromanon deamina sebagai tambahan pakan ternak. Pada penelitian sebelumnya pemberian senyawa kromanon deamina yang diaplikasikan pada minuman dapat meningkatkan kadar protein 1-3% pada daging ayam broiler (Widjaja, 2015). Produksi ayam broiler nasional 1.787 juta ton (Ditjen Nakkeswan, 2018) dan konsumsi daging ayam per kapita 1.1708 juta ton (96,6%) (BPS, 2018) mengakibatkan harga ayam dipasaran menjadi fluktuatif. Sebagai upaya dalam menunda kenaikan harga daging ayam adalah dengan metode penyimpanan beku karkas ayam setelah disembelih. Namun jeda waktu yang dibutuhkan dalam

REPORT	CHECKED	AUTHOR	PAGE
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