DAFTAR PUSTAKA

Afrianti, M. 2011. Penambahan tepung sagu dengan konsentrasi yang berbeda terhadap mutu bakso daging kelinci [skripsi]. Universitas Islam Negeri Sultan Syarif Kasim Riau, Pekanbaru.

Akhmadi, Kgs., Afrila, A., dan Adhi, W. I. 2007. Pengaruh jenis daging dan tingkat penambahan tepung tapioka yang berbeda terhadap kualitas bakso. *Buana Sains* 7 (2) : 139-144

Albert, W. R., Rizaldi, Nurdin, J. 2014. Karakteristik kubangan dan aktivitas berkubang babi hutan (*Sus Scrofa*) di Hutan Pendidikan dan Penelitian Biologi (HPPB) Universitas Andalas. Jurnal Biologi Universitas Andalas Vol 3 (3) : 195-201

Almatsier, S. 2009. *Prinsip dasar ilmu gizi.* PT Gramedia Pustaka Utama, Jakarta.

Amrullah, M. 2017. Penambahan tepung sagu dengan level yang berbeda terhadap mutu (organoleptik) bakso daging ayam [skripsi]. Universitas Islam Negeri Alauddin, Makasar.

Andarwulan, N., Kusnandar, F., dan Herawati, D. 2011. *Analisis pangan.* Dian Rakyat, Jakarta.

Astawan, M. 2008. *Sehat dengan hidangan hewani*. Penebar Swadaya, Jakarta.

AOAC. 1995. *Official Methods of Analysis. Association of Official Analytical Chemist*, Washington D. C.

Arief, H. S., Pramono, Y. B., dan Bintoro, V. P. 2012. Pengaruh *edible coating* dengan konsentrasi berbeda terhadap kadar protein, daya ikat air, dan aktivitas air bakso sapi selama masa penyimpanan. *Animal Agriculture Journal* 1 (2) : 100-108

Bahar, B. 2003. *Panduan Praktis Memilih Produk Daging Sapi* (F. G. Winarno, Ed.). Gramedia Pustakan Utama, Jakarta.

Balia, R.L., Suryaningsih, L., dan Putranto, W.S. 2014. Pengujian pemalsuan bakso dengan daging babi melalui pendekatan ensimatis dan molekuler pada UKM di Kawasan Pendidikan Jatinagor Kabupaten Sumedang. *Jurnal Aplikasi Ipteks untuk Masyarakat* 3 (2) : 70-72

Bintoro, V. P. 2008. *Teknologi Pengolahan Daging dan Analisis Produk*. Badan Penerbit Universitas Diponegoro, Semarang.

[BSN] Badan Standarisasi Nasional Indonesia, 2008. SNI 3932:2008 tentang Mutu Karkas dan Daging Sapi. Badan Standarisasi Nasional Indonesia, Jakarta.

[BSN] Badan Standarisasi Nasional Indonesia, 2014. SNI 3818:2014. tentang bakso. Badan Standarisasi Nasional Indonesia, Jakarta.

Chakim, L., Dwiloka, B., dan Kusrahayu. 2013. Tingkat kekenyalan, daya mengikat air, kadar air, dan kesukaan pada bakso daging sapi dengan subtitusi jantung sapi. *Animal Agriculture Journal* 2 : 97-104

[DKBM] Daftar Komposisi Bahan Makanan untuk Kalangan Sendiri. 2005. Program Studi Gizi Fakultas Ilmu Kedokteran Universitas Muhammadiyah Surakarta. Surakarta.

Falahudin, A. 2013. Kajian kekenyalan dan kandungan protein bakso menggunakan campuran daging sapi dengan tepung jamur tiram putih. *Jurnal Ilmu Pertanian dan Peternakan* 1 (2) : 1-9

Firahmi, N., Dharmawati, S., dan Aldrin, M. 2015. Sifat fisik dan organoleptik bakso yang dibuat dari daging sapi dengan lama pelayuan berbeda. *Al Ulum Sains dan Teknologi* 1 (1) : 39-45

Hasanah, U. 2013. Formulasi campuran tepung tapioka dengan tepung sagu dalam pembuatan bakso daging sapi [skripsi]. Universitas Islam Indragiri, Riau.

Kurniawan, A. B., Al-Baarri, A. N., dan Kusrahayu. 2012. Kadar serat kasar, daya ikat air, dan rendemen bakso ayam dengan penambahan karaginan. *Jurnal Aplikasi Teknologi Pangan* 1 (2) : 23-27

Komariah, Ulupi, N., Fatriani, Y. 2004. Pengaruh penambahan tepung tapioka dan es batu pada berbagai tingkat yang berbeda terhadap kualitas fisik bakso sapi. *Jurnal Peternakan* 28 (2) : 80-86

Komariah, R. Sri, Sarjito. 2009. Sifat fisik daging sapi, kerbau, dan domba pada lama postmortem yang berbeda. *Buletin Peternakan* 33 (3) : 183-189

Kusnandar, F. 2010. *Kimia Pangan Komponen Makro.* Dian Rakyat, Jakarta.

Kusnadi, C. D., Bintoro, V. P., dan Al-Baarri, A. N. 2012. Daya ikat air, tingkat kekenyalan dan kadar protein pada bakso kombinasi daging sapi dan daging kelinci. *Jurnal Aplikasi Teknologi Pangan* 1 (2) : 28-31

Laksmi, R. T., Legowo, A. M., Kusrahayu. Daya ikat air, pH, dan sifat organoleptik *chicken nugget* yang disubtitusi dengan telur rebus. *Animal Agriculture Journal* 1 : 453-460

Lawrie, R.A. 1995. *Ilmu daging*. Penerjemah A, Prakkasi. UI-Press, Jakarta.

LPPOM MUI. 2020. Perbedaan anatara daging sapi dan daging celeng [internet]. Tersedia pada halalmui.org [05 Juni 2020]

Mustafa, A. 2015. Analisis proses pembuatan pati ubi kayu (tapioka) berbasis neraca massa. *Agrointek* 9 (2) : 127-133

Montolalu, S., Lontanan, N., Sakul, S., dan Mirah, Dp. A. 2013. Sifat fisiko kimia dan mutu organoleptik bakso broiler dengan menggunakan tepung ubi jalar (*Ipomoea batatas L)*. *Jurnal Zootek* 32 (5) : 1-13

Nurwin, A. F., Dewi, E. N., dan Romadhon. 2019. Pengaruh penambahan tepung karagenan pada karakteristik bakso kerang darah (*Anadara granosa)*. *Jurnal Ilmu dan Teknologi Perikanan* 1 (2) : 39-46

Padmaningrum, R.T., dan Purwaninsih, D. 2007. Analisis kadar gizi dan zat aditif dalam bakso sapi dari beberapa produsen [prosiding]. Universitas Negeri Yogyakarta, Yogyakarta.

Permadi, A. 2020. *Pasutri Jual Daging Celeng Oplosan Selama 6 Tahun, Dipasarkan ke Tasikmalaya, Cianjur dan Bandung.* https://www.regional.kompas.com. [16 Juli 2020]

Reksowardojo, D.H. 1995. Studi kemampuan reproduksi dan produksi celeng rusa (Babyrousa babyrussa celebensis Deginer) melalui upaya budidaya [disertasi]. Program Pascasarjana IPB. Bogor.

Rosiana, 2011. *Ilmu nutrisi dan gizi daging*. Gadjah Mada University Press, Yogyakarta.

Salmin, N., Hermanto, dan Isamu, K. T. 2017. Pengaruh komposisi tepung tapioka dan sagu terhadap kualitas bakso kerang pokea. *Jurnal Sains dan Teknologi Pangan* 2 (6) : 958-965

Soediaoetomo, A.J. 2004. *Ilmu gizi dan profesi untuk mahasiswa.* Dian Rakyat, Jakarta.

Soekarto, S. T. 1990. *Penilaian organoleptik untuk industri pangan dan hasil pertanian*. Bhratara Karya Aksara, Jakarta.

Soeparno. 2005. *Ilmu dan teknologi daging*. Cetakan keempat. Gajah Mada University Press. Yogyakarta.

Sulistiyani, 2015. Pengaruh penggunaan jamur kuping (*Auricularia auricula)* sebagai bahan pensubtitusi daging sapi terhadap komposisi proksimat dan daya terima bakso [skripsi]. Universitas Muhammadiyah Surakarta, Surakarta.

Tobing, S.W.L. 2012. Perbandingan kualitas karkas dan daging antara celeng peliharaan dengan celeng hutan. Artikel. Program Pascasarjana Univeristas Andalas. Padang.

Untoro, N.S., Kusrahayu, dan Setiani, B.E. 2012. Kadar air, kekenyalan, kadar lemak dan citarasa bakso daging sapi dengan penambahan ikan bandeng presto (*Channos Channos Fork).* Animal Agriculture Journal. Vol 1 (1) : 567583

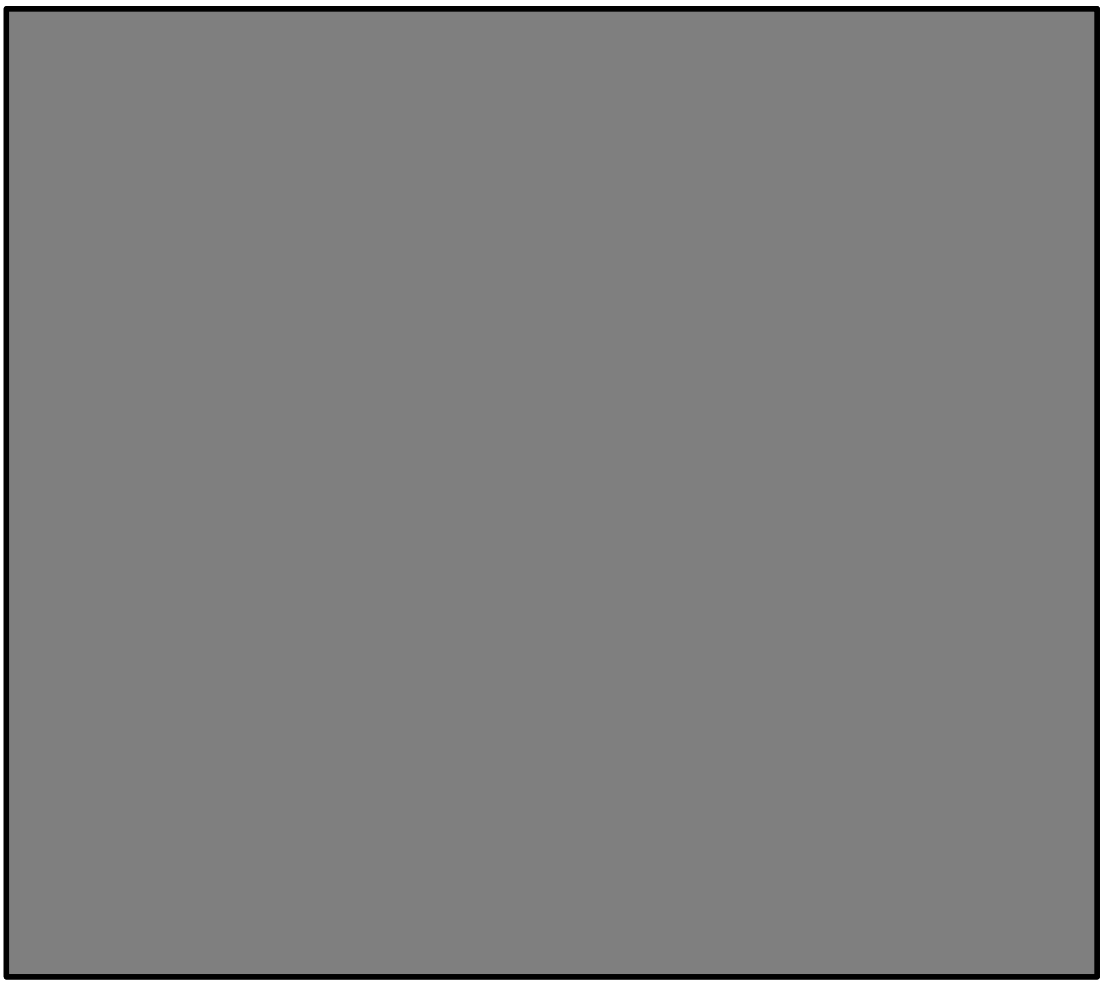
Wibowo, S. 2009. Membuat bakso sehat dan enak. Penebar Swadaya. Jakarta

Winarno. 1988. Kimia Pangan dan Gizi. Grmaedia. Jakarta

Winarno. 1995. Kimia Pangan dan Gizi. Gramedia. Jakarta.

Zulkarnain, G., Winarno, G. D., Setiawan, A., Harianto, S. P. 2018. Studi keberadaan mamalia di Hutan Pendidikan, Taman Hutan Raya Wan Abdul Rachman. Gorontalo Journal of Foresty Research.Vol 1 (2) : 11-20

LAMPIRAN



Lampiran 1. Lembar Uji Organoleptik

Lampiran 2. Data Uji Mutu Sensori Parameter Warna Bakso

No.	A1		A2		A3	
	U1	U2	U1	U2	U1	U2
1.	2,86	7,30	1,53	8,33	6,06	6,66
2.	9,93	9,90	6,13	9,86	10,00	8,33
3.	5,66	5,00	5,00	5,40	5,00	5,26
4.	2,60	5,30	6,93	7,46	0,80	6,66
5.	5,00	5,50	2,86	6,06	3,66	5,26
6.	4,86	6,10	4,80	6,26	3,40	5,93
7.	7,86	6,50	3,86	7,46	4,66	7,20
8.	6,73	6,70	5,13	7,40	5,20	7,33
9.	4,60	3,50	1,20	7,93	1,40	4,60
10.	6,40	3,30	4,60	7,40	1,40	7,26
11.	5,20	4,00	6,20	6,33	5,66	5,46
12.	4,60	5,50	5,13	6,40	3,53	6,53
13.	4,73	4,10	4,86	5,20	5,00	4,73
14.	5,00	4,70	5,06	5,00	4,60	5,40
15.	5,20	4,90	4,20	5,00	3,73	5,66
16.	7,46	7,00	4,00	7,86	3,00	5,93
17.	5,46	8,00	6,73	8,73	5,33	7,00
18.	6,6	5,80	4,33	7,13	4,20	6,06
19.	1,80	8,60	1,53	7,73	1,13	7,66
20.	3,13	5,90	4,33	5,53	4,33	6,00
21.	4,73	4,70	4,80	8,46	7,80	7,73
22.	6,93	6,10	4,06	8,26	3,26	7,33
23.	8,26	8,30	0,13	9,86	2,06	9,73
24.	4,06	8,10	0,93	6,73	4,73	6,20
25	5,96	5,50	7,60	6,53	6,53	6,00
26.	4,26	7,30	5,20	7,90	4,80	5,33
27.	1,66	1,90	2,46	8,86	2,06	1,66
28.	1,96	4,70	2,53	5,80	4,73	2,73
29.	4,00	5,30	2,93	4,80	3,66	4,86
30.	5,33	7,10	5,13	7,20	4,86	5,53
31.	4,86	4,70	4,36	4,60	4,73	4,2
32.	3,20	6,90	6,80	6,00	4,13	5,4
33.	7,33	5,30	4,60	5,66	4,33	5,46
34.	5,33	6,90	4,60	6,06	4,00	6,60
35.	6,26	5,50	4,86	6,86	5,26	6,70
36.	5,86	5,20	5,13	7,03	4,86	6,66

37.	4,66	8,50	4,40	9,20	7,46	6,66
38.	6,40	5,10	2,80	9,53	3,93	8,40
39.	6,26	8,90	6,13	9,06	5,43	7,26
40.	8,00	1,50	4,53	2,26	7,33	4,00
41.	6,06	8,00	4,53	5,40	3,93	8,46
42.	6,06	5,70	4,60	5,63	4,66	5,13
43.	4,06	9,90	0,1	9,86	7,23	9,96
44.	6,06	5,30	4,16	6,53	4,80	5,23
45.	8,40	9,90	4,80	9,60	5,73	9,03
46.	6,06	5,80	3,76	6,40	5,73	6,00
47.	4,13	7,60	2,06	5,20	4,20	6,06
48.	3,76	3,50	2,33	4,73	5,30	4,80
49.	6,76	5,90	5,26	6,26	5,26	5,60
50.	4,80	8,50	7,40	9,26	5,93	8,06

Lampiran 3. Data SPSS Uji Mutu Sensori Parameter Warna Bakso

Descriptive Statistics

Dependent Variable: Parameter_Warna

Perlakuan	Mean	Std. Deviation	N
Bakso Celeng	5,5968	2,19173	100
Bakso Sapi	5,7250	1,86207	100
Bakso Sapi Campur Celeng	5,4301	1,83958	100
Total	5,5840	1,96816	300

Tests of Between-Subjects Effects

Dependent Variable: Parameter_Warna

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4,370[a]	2	2,185	,562	,570
Intercept	9354,164	1	9354,164	2407,758	,000
Perlakuan	4,370	2	2,185	,562	,570
Error	1153,848	297	3,885		
Total	10512,382	300			
Corrected Total	1158,218	299			

a. R Squared = ,004 (Adjusted R Squared = -,003)

Parameter_Warna

Duncan[a,b]

Perlakuan	N	Subset 1
Bakso Sapi Campur Celeng	100	5,4301
Bakso Celeng	100	5,5968
Bakso Sapi	100	5,7250
Sig.		,323

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 3,885.

a. Uses Harmonic Mean Sample Size = 100,000.

b. Alpha = ,05.

Lampiran 4. Data Uji Mutu Sensori Parameter Kekenyalan Bakso

No.	A1		A2		A3	
	U1	U2	U1	U2	U1	U2
1.	6,60	8,53	4,33	7,26	1,66	3,33
2.	9,93	0,06	9,86	9,80	0,13	10,00
3.	4,53	7,20	2,60	8,60	1,46	6,46
4.	8,13	5,66	2,20	8,26	1,93	3,73
5.	4,80	4,66	5,93	4,66	3,26	5,40
6.	3,73	6,06	4,80	6,33	3,46	3,66
7.	5,73	0,73	1,93	0,86	1,33	4,33
8.	3,80	4,60	7,33	5,46	0,66	6,73
9.	1,60	4,53	4,40	8,26	7,86	4,53
10.	6,00	1,86	5,40	2,46	3,46	2,93
11.	6,33	5,93	2,40	4,53	1,40	3,06
12.	6,26	6,06	1,13	5,86	2,00	3,46
13.	5,60	4,60	6,06	4,66	8,13	4,60
14.	5,40	5,26	4,80	5,20	4,46	4,73
15.	4,80	4,93	4,06	5,20	2,93	4,33
16.	4,40	5,66	8,13	5,40	3,26	4,00
17.	2,20	5,53	1,73	8,20	9,00	4,73
18.	7,06	6,40	6,80	6,73	7,33	6,20
19.	5,8	3,86	1,66	8,00	2,66	3,60
20.	4,06	3,8	5,73	5,40	6,06	3,73
21.	8,86	5,26	4,93	8,73	4,73	6,20
22.	6,93	4,66	5,53	6,00	6,46	5,26
23.	8,20	8,20	0,60	8,53	0,00	1,66
24.	1,26	6,46	0,60	5,46	0,40	0,80
25	7,73	7,20	9,00	6,76	8,40	5,53
26.	6,83	4,70	4,66	3,93	1,86	2,33
27.	7,80	0,80	8,86	5,60	0,66	3,00
28.	4,66	5,13	5,43	3,53	0,80	4,66
29.	6,06	3,80	6,00	4,73	2,93	4,86
30.	6,60	6,33	0,06	1,26	0,26	0,80
31.	3,26	5,23	8,50	5,73	7,66	5,56
32.	9,86	5,13	0,26	6,13	3,00	5,20
33.	3,90	4,93	8,46	5,53	1,40	4,20
34.	5,60	4,86	0,56	5,56	0,86	1,40

35.	8,20	8,76	1,66	6,53	3,86	6,73
36.	5,13	5,06	3,86	6,60	5,06	5,46
37.	4,73	5,30	7,43	8,36	5,30	8,46
38.	0,40	8,73	9,00	9,06	5,66	6,33
39.	8,23	9,26	6,83	7,00	1,93	6,93
40.	8,06	7,46	9,00	3,93	0,93	2,40
41.	1,33	3,33	5,53	4,53	6,23	4,00
42.	8,80	6,20	4,66	5,20	5,26	5,16
43.	9,60	9,66	8,86	5,66	2,40	5,80
44.	3,13	8,13	5,26	2,80	1,80	5,73
45.	5,26	3,80	6,33	5,33	3,46	2,53
46.	5,73	6,53	6,13	6,10	4,13	5,73
47.	3,60	9,60	3,53	4,20	1,93	3,40
48.	5,26	5,80	4,76	6,66	3,50	4,80
49.	4,06	5,86	4,33	6,66	3,93	5,46
50.	4,63	3,20	4,53	4,73	1,13	5,40

Lampiran 5. Data SPSS Uji Mutu Sensori Parameter Kekenyalan Bakso

Descriptive Statistics

Dependent Variable: Parameter_Kekenyalan

Perlakuan	Mean	Std. Deviation	N
Bakso Celeng	5,3871	2,35444	100
Bakso Sapi	5,5605	2,19394	100
Bakso Sapi Campur Celeng	3,9801	2,21651	100
Total	4,9759	2,35762	300

Tests of Between-Subjects Effects

Dependent Variable: Parameter_Kekenyalan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	150,252[a]	2	75,126	14,760	,000
Intercept	7427,943	1	7427,943	1459,353	,000
Perlakuan	150,252	2	75,126	14,760	,000
Error	1511,696	297	5,090		
Total	9089,891	300			
Corrected Total	1661,948	299			

a. R Squared = ,090 (Adjusted R Squared = ,084)

Respon_Kekenyalan

Duncan[a,b]

Perlakuan	N	Subset 1	Subset 2
Bakso Sapi Campur Celeng	100	3,9801	
Bakso Celeng	100		5,3871
Bakso Sapi	100		5,5605
Sig.		1,000	,587

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 5,090.

a. Uses Harmonic Mean Sample Size = 100,000.

b. Alpha = ,05.

Lampiran 6. Hasil Uji Sifat Kimia Bakso dan Daging

No.	Perlakuan	Kadar Air (%)	Kadar Abu (%)	Kadar Protein (%)	Kadar Lemak (%)	Kadar Serat Kasar (%)	Kadar Karbohidrat (%)
1.	A1 U1	74,73	0,39	5,25	15,83	9,22	3,77
2.	A1 U2	75,91	0,59	5,75	8,69	6,12	9,04
3.	A2 U1	71,09	0,22	4,57	15,82	6,53	8,28
4.	A2 U2	67,78	0,30	3,66	19,43	4,06	8,80
5.	A3 U1	72,99	0,75	5,06	15,94	6,38	5,23
6.	A3 U2	75,68	0,74	4,29	17,54	6,35	1,72
7.	Daging Sapi U1	62,28	0,34	15,48	4,84	6,95	17,03
8.	Daging Sapi U2	64,51	1,12	5,67	9,16	6,88	19,51
9.	Daging Celeng U1	61,10	0,72	20,09	11,82	0,45	6,27
10.	Daging Celeng U2	60,78	0,70	19,70	11,78	0,47	7,04

Lampiran 7. Data SPSS Hasil Uji Kimia Bakso dan Daging

1. Kadar Air

   a. Bakso

Descriptive Statistics

Dependent Variable: Kadar_Air

Perlakuan	Mean	Std. Deviation	N
Bakso Celeng	69,4400	2,33770	2
Bakso Sapi	75,3245	,83226	2
Bakso Sapi+Celeng	74,3410	3,75191	2
Total	73,0352	3,46344	6

Tests of Between-Subjects Effects Dependent Variable: Kadar_Air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	39,743[a]	2	19,871	2,946	,196
Intercept	32004,813	1	32004,813	4745,133	,000
Perlakuan	39,743	2	19,871	2,946	,196
Error	20,234	3	6,745		
Total	32064,791	6			
Corrected Total	59,977	5			

a. R Squared = ,663 (Adjusted R Squared = ,438)

Kadar_Air

Duncan[a,b]

Perlakuan	N	Subset 1
Bakso Celeng	2	69,4400
Bakso Sapi+Celeng	2	74,3410
Bakso Sapi	2	75,3245
Sig.		,108

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 6,745. a.

Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

b.

Daging

Descriptive Statistics

Dependent Variable: Kadar_Air

Sampel	Mean	Std. Deviation	N
-	,0000	,00000	2
Daging Celeng	60,9400	,22627	2
Daging Sapi	63,4044	1,57628	2
Total	41,4481	32,13239	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	5159,917[a]	2	2579,958	3052,162	,000
Intercept	10307,687	1	10307,687	12194,278	,000
Sampel	5159,917	2	2579,958	3052,162	,000
Error	2,536	3	,845		
Total	15470,139	6			
Corrected Total	5162,452	5			

a. R Squared = 1,000 (Adjusted R Squared = ,999)

Kadar_Air

Duncan[a,b]

Sampel	N	Subset 1	Subset 2
-	2	,0000	
Daging Celeng	2		60,9400
Daging Sapi	2		63,4044
Sig.		1,000	,075

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,845.

a. Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

2. Kadar Abu

a. Bakso

Descriptive Statistics

Dependent Variable: Kadar_Abu

Perlakuan	Mean	Std. Deviation	N
Bakso Celeng	,2643	,05692	2
Bakso Sapi	,4950	,14142	2
Bakso Sapi+Celeng	,7475	,00919	2
Total	,5023	,22672	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Abu

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	,234[a]	2	,117	15,028	,027
Intercept	1,514	1	1,514	194,669	,001
Perlakuan	,234	2	,117	15,028	,027
Error	,023	3	,008		
Total	1,771	6			
Corrected Total	,257	5			

a. R Squared = ,909 (Adjusted R Squared = ,849)

Kadar_Abu

Duncan[a,b]

Perlakuan	N	Su bset 1	Su bset 2
Bakso Celeng	2	,2643	
Bakso Sapi	2		,4950
Bakso Sapi+Celeng	2		,7475
Sig.		1,000	,088

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,010.

a. Uses Harmonic Mean Sample Size = 2,000.

b. Daging

b. Alpha = ,05.

Descriptive Statistics

Dependent Variable: Kadar_Abu

Sampel	Mean	Std. Deviation	N
-	,0000	,00000	2
Daging Celeng	,7100	,01414	2
Daging Sapi	,7351	,55282	2
Total	,4817	,44778	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Abu

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	,697[a]	2	,348	3,418	,168
Intercept	1,392	1	1,392	13,658	,034
Sampel	,697	2	,348	3,418	,168
Error	,306	3	,102		
Total	2,395	6			
Corrected Total	1,003	5			

a. R Squared = ,695 (Adjusted R Squared = ,492)

Kadar_Abu

Duncan[a,b]

Sampel	N	Subset 1
-	2	,0000
Daging Celeng	2	,7100
Daging Sapi	2	,7351
Sig.		,105

Means for groups in homogeneous subsets are displayed. Based on observed means. The error term is Mean Square(Error) = ,102.

a. Uses Harmonic Mean

Sample Size = 2,000.

b. Alpha = ,05.

3. Kadar Protein

a. Bakso

Descriptive Statistics

Dependent Variable: Kadar_Protein

Perlakuan	Mean	Std. Deviation	N
Bakso Celeng	4,1150	,64347	2
Bakso Sapi	5,5050	,35355	2
Bakso Sapi+Celeng	4,6780	,54023	2
Total	4,7660	,74649	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Protein

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1,955[a]	2	,978	3,530	,163
Intercept	136,289	1	136,289	492,077	,000
Perlakuan	1,955	2	,978	3,530	,163
Error	,831	3	,277		
Total	139,075	6			
Corrected Total	2,786	5			

a. R Squared = ,702 (Adjusted R Squared = ,503)

Kadar_Protein

Duncan[a,b]

Perlakuan	N	Subset 1
Bakso Celeng	2	4,1150
Bakso Sapi+Celeng	2	4,6780
Bakso Sapi	2	5,5050
Sig.		,078

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,277.

a. Uses Harmonic Mean Sample Size = 2,000.

b. Daging

b. Alpha = ,05.

Descriptive Statistics

Dependent Variable: Kadar_Protein

Sampel	Mean	Std. Deviation	N
-	,0000	,00000	2
Daging Celeng	19,8950	,27577	2
Daging Sapi	10,5840	6,93813	2
Total	10,1597	9,42937	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Protein

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	396,351[a]	2	198,176	12,331	,036
Intercept	619,313	1	619,313	38,535	,008
Sampel	396,351	2	198,176	12,331	,036
Error	48,214	3	16,071		
Total	1063,878	6			
Corrected Total	444,565	5			

a. R Squared = ,892 (Adjusted R Squared = ,819)

Kadar_Protein

Duncan[a,b]

Sampel	N	Subset 1	Subset 2
-	2	,0000	
Daging Sapi	2	10,5840	10,5840
Daging Celeng	2		19,8950
Sig.		,078	,103

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 16,071. a.

Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

4. Kadar Lemak

a. Bakso

Descriptive Statistics

Dependent Variable: Kadar_Lemak

Perlakuan	Mean	Std. Deviation	N
Bakso Celeng	17,6315	2,55053	2
Bakso Sapi	12,2615	5,04945	2
Bakso Sapi+Celeng	16,7465	1,12925	2
Total	15,5465	3,64511	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Lemak

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	33,157[a]	2	16,578	1,495	,355
Intercept	1450,162	1	1450,162	130,734	,001
Perlakuan	33,157	2	16,578	1,495	,355
Error	33,277	3	11,092		
Total	1516,596	6			
kCorrected Total	66,434	5			

a. R Squared = ,499 (Adjusted R Squared = ,165)

Kadar_Lemak

Duncan[a,b]

Perlakuan	N	Subset 1
Bakso Sapi	2	12,2615
Bakso Sapi+Celeng	2	16,7465
Bakso Celeng	2	17,6315
Sig.		,204

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 11,092. a.

Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

b. Daging

Descriptive Statistics

Dependent Variable: Kadar_Lemak

Sampel	Mean	Std. Deviation	N
-	,0000	,00000	2
Daging Celeng	11,8000	,02828	2
Daging Sapi	7,0034	3,05385	2
Total	6,2678	5,48070	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Lemak

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	140,863[a]	2	70,432	22,655	,015
Intercept	235,712	1	235,712	75,817	,003
Sampel	140,863	2	70,432	22,655	,015
Error	9,327	3	3,109		
Total	385,902	6			
Corrected Total	150,190	5			

a. R Squared = ,938 (Adjusted R Squared = ,896)

Kadar_Lemak

Duncan[a,b]

Sampel	N	Subset 1	Subset 2
-	2	,0000	
Daging Sapi	2		7,0034
Daging Celeng	2		11,8000
Sig.		1,000	,073

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 3,109. a.

Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

5. Kadar Serat Kasar

a. Bakso

Descriptive Statistics

Dependent Variable: Kadar_Serat_Kasar

Perlakuan	Mean	Std. Deviation	N
Bakso Celeng	5,2970	1,74655	2
Bakso Sapi	7,6770	2,18920	2
Bakso Sapi+Celeng	6,3685	,02616	2
Total	6,4475	1,64480	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Serat_Kasar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	5,683[a]	2	2,842	1,087	,442
Intercept	249,422	1	249,422	95,396	,002
Perlakuan	5,683	2	2,842	1,087	,442
Error	7,844	3	2,615		
Total	262,948	6			
Corrected Total	13,527	5			

a. R Squared = ,420 (Adjusted R Squared = ,034)

Kadar_Serat_Kasar

Duncan[a,b]

Perlakuan	N	Subset 1
Bakso Celeng	2	5,2970
Bakso Sapi+Celeng	2	6,3685
Bakso Sapi	2	7,6770
Sig.		,236

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2,615. a.

Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

b. Daging

Descriptive Statistics

Dependent Variable: Kadar_Serat_Kasar

Sampel	Mean	Std. Deviation	N
-	,0000	,00000	2
Daging Celeng	,4600	,01414	2
Daging Sapi	6,9186	,04985	2
Total	2,4596	3,46020	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Serat_Kasar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	59,862[a]	2	29,931	33441,079	,000
Intercept	36,296	1	36,296	40552,656	,000
Sampel	59,862	2	29,931	33441,079	,000
Error	,003	3	,001		
Total	96,161	6			
Corrected Total	59,865	5			

a. R Squared = 1,000 (Adjusted R Squared = 1,000)

Kadar_Serat_Kasar Duncan[a,b]

Sampel	N	Subset 1	Subset 2	Subset 3
-	2	,0000		
Daging Celeng	2		,4600	
Daging Sapi	2			6,9186
Sig.		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) = ,001.

a. Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

6. Kadar Karbohidrat

a. Bakso

Descriptive Statistics

Dependent Variable: Kadar_Karbohidrat

Perlakuan	Mean	Std. Deviation	N
Bakso Celeng	8,5454	,37279	2
Bakso Sapi	6,4117	3,72256	2
Bakso Sapi+Celeng	3,4830	2,48194	2
Total	6,1467	3,03299	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Karbohidrat

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	25,839[a]	2	12,919	1,923	,290
Intercept	226,690	1	226,690	33,740	,010
Perlakuan	25,839	2	12,919	1,923	,290
Error	20,157	3	6,719		
Total	272,685	6			
Corrected Total	45,995	5			

a. R Squared = ,562 (Adjusted R Squared = ,270)

Kadar_Karbohidrat

Duncan[a,b]

Perlakuan	N	Subset 1
Bakso Sapi+Celeng	2	3,4830
Bakso Sapi	2	6,4117
Bakso Celeng	2	8,5454
Sig.		,146

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 6,719. a.

Uses Harmonic Mean Sample Size = 2,000.

b. Daging

b. Alpha = ,05.

Descriptive Statistics

Dependent Variable: Kadar_Karbohidrat

Sampel	Mean	Std. Deviation	N
-	,0000	,00000	2
Daging Celeng	6,6550	,54447	2
Daging Sapi	18,2741	1,75228	2
Total	8,3097	8,31290	6

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Karbohidrat

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	342,155[a]	2	171,077	152,433	,001
Intercept	414,305	1	414,305	369,153	,000
Sampel	342,155	2	171,077	152,433	,001
Error	3,367	3	1,122		
Total	759,827	6			
Corrected Total	345,522	5			

a. R Squared = ,990 (Adjusted R Squared = ,984)

Kadar_Karbohidrat Duncan[a,b]

Sampel	N	Subset 1	Subset 2	Subset 3
-	2	,0000		
Daging Celeng	2		6,6550	
Daging Sapi	2			18,2741
Sig.		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) = 1,122. a.

Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

Lampiran 8. Hasil Uji Fisik Bakso

No	Perlakuan	Daya Mengikat air (DMA)	
		mgH_2O	%mgH2O
1	A1 U1	96.78	32.26
2	A1 U2	92.70	30.90
3	A2 U1	102.22	34.07
4	A2 U2	96.78	32.26
5	A3 U1	68.20	22.73
6	A3 U2	62.08	20.69
7	Daging Sapi U1	92.02	30.67
8	Daging Sapi U2	100.86	33.62
9	Daging Celeng U1	98.14	32.71
10	Daging Celeng U2	94.06	31.35

Lampiran 9. Data SPSS Hasil Uji Fisik Bakso dan Daging

a. Bakso

Descriptive Statistics

Dependent Variable: Daya_Mengikat_Air

Perlakuan	Mean	Std. Deviation	N
Bakso Celeng	33,1650	1,27986	2
Bakso Sapi	31,5800	,96167	2
Bakso Sapi+Celeng	21,7100	1,44250	2
Total	28,8183	5,63456	6

Tests of Between-Subjects Effects

Dependent Variable: Daya_Mengikat_Air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	154,097[a]	2	77,049	49,777	,005
Intercept	4982,978	1	4982,978	3219,221	,000
Perlakuan	154,097	2	77,049	49,777	,005
Error	4,644	3	1,548		
Total	5141,719	6			

b. Daging

Corrected Total	158,741	5			

a. R Squared = ,971 (Adjusted R Squared = ,951)

Daya_Mengikat_Air Duncan[a,b]

Perlakuan	N	Subset 1	Subset 2
Bakso Sapi+Celeng	2	21,7100	
Bakso Sapi	2		31,5800
Bakso Celeng	2		33,1650
Sig.		1,000	,292

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1,548. a.

Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

b. Daging

Descriptive Statistics

Dependent Variable: Daya_Mengikat_Air

Perlakuan	Mean	Std. Deviation	N
-	,0000	,00000	2
Daging Celeng	32,0300	,96167	2
Daging Sapi	32,1450	2,08597	2
Total	21,3917	16,60180	6

Tests of Between-Subjects Effects Dependent Variable: Daya_Mengikat_Air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1372,823[a]	2	686,412	390,299	,000
Intercept	2745,620	1	2745,620	1561,180	,000
Perlakuan	1372,823	2	686,412	390,299	,000
Error	5,276	3	1,759		
Total	4123,720	6			
Corrected Total	1378,099	5			

a. R Squared = ,996 (Adjusted R Squared = ,994) **Daya_Mengikat_Air**

Duncan[a,b]

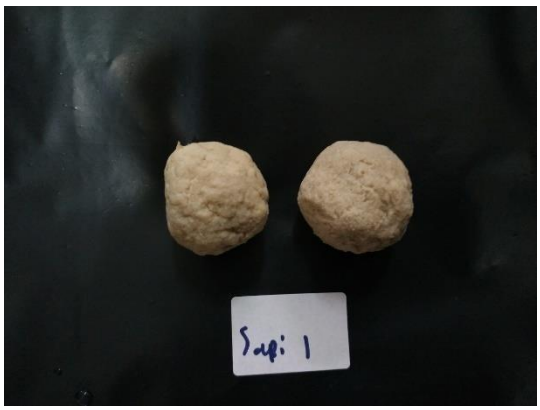
Perlakuan	N	Subset 1	Subset 2
-	2	,0000	
Daging Celeng	2		32,0300
Daging Sapi	2		32,1450
Sig.		1,000	,936

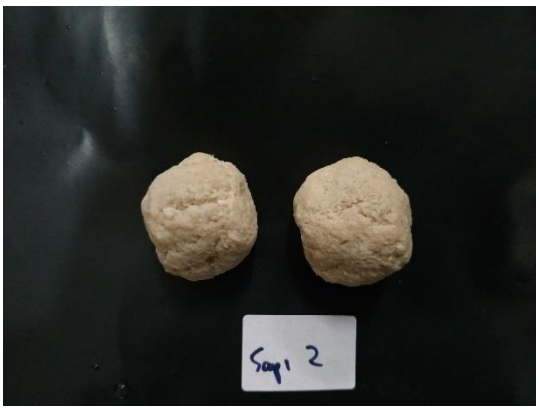
Means for groups in homogeneous subsets are displayed.

Based on observed means. The error term is Mean Square(Error) = 1,759. a. Uses Harmonic Mean Sample Size = 2,000.

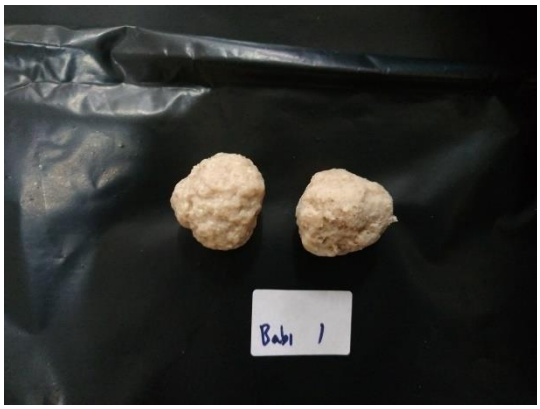
b. Alpha = ,05.

Lampiran 10. Dokumentasi Bakso





Bakso Daging Sapi U1 Bakso Daging Sapi U2



Bakso Daging Babi U1 Bakso Daging Babi U2

Bakso Daging Sapi Campur Daging Celeng U1

Bakso Daging Sapi Campur Daging Celeng U2