

LAMPIRAN

Lampiran 1. Kuesioner Uji Organoleptik

Nama :
Tanggal :
Bahan : Bakso
Pengujian : Tekstur / Aroma / Rasa (coret yang tidak perlu)

Dihadapan saudara disajikan 5 sampel bakso. Saudara diminta untuk memberikan penilaian terhadap sample yang disajikan tersebut, dengan memberikan tanda (|) pada skala garis dibawah ini.

-----	-----	-----	-----	-----	-----	315
1	2	3	4	5	6	7
-----	-----	-----	-----	-----	-----	210
1	2	3	4	5	6	7
-----	-----	-----	-----	-----	-----	525
1	2	3	4	5	6	7
-----	-----	-----	-----	-----	-----	105
1	2	3	4	5	6	7
-----	-----	-----	-----	-----	-----	420
1	2	3	4	5	6	7

- 1= sangat tidak suka
- 2= tidak suka
- 3= agak tidak suka
- 4= netral
- 5= agak suka
- 6= suka
- 7= sangat suka

Komentar:

Lampiran 2. Data Hasil Analisa Kadar Air Bakso

A. Data Hasil Pengamatan Kadar Air

Perlakuan		Ulangan			Total	Rata-rata
Dark meat kalkun	kulit kalkun	1	2	3		
100%	0%	72.89485	75.94000	73.30480	222.13965	74.04655
97.5%	2.5%	71.85270	71.98580	72.67960	216.51810	72.17270
95%	5%	70.85270	71.79825	72.39315	215.04410	71.68140
92.5%	7.5%	70.52880	71.09440	71.86995	213.49315	71.16440
90%	10%	70.22540	69.88205	70.41045	210.51790	70.17260

B. Hasil Perhitungan Anova Kadar Air

Sumber Varian	Db	JK	KT	F hitung	F tabel
Perlakuan	4	24.723	6.181	8.799	3.84
Ulangan	2	2.494	1.247		
Galat	8	5.619	0.702		
Total	14	32.837			

Keterangan:

Fhitung > Ftabel → ada beda nyata antar perlakuan

C. Hasil Uji DMRT

No	Perlakuan	Rerata	P =				Notasi
			2	3	4	5	
1	D ₁ S ₁	74.05	-	-	-	-	a
2	D ₂ S ₂	72.17	1.88*	-	-	-	b
3	D ₃ S ₃	71.68	0.49	2.37*	-	-	bc
4	D ₄ S ₄	71.16	0.52	1.01	2.89*	-	bc
5	D ₅ S ₅	70.17	0.99	1.51	2.00*	3.88*	c
rp			3.47	3.52	3.55	3.56	
Rp			1.67	1.69	1.70	1.71	

Keterangan: Nilai rata-rata kadar air yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata
Tanda * menunjukkan adanya beda nyata antara Rp dan P

$Sy = \sqrt{GKT/n} = \sqrt{0.702/3} = 0.48$

Lampiran 3. Data Hasil Analisa Kadar Protein

A. Data Hasil Pengamatan Kadar Protein

Perlakuan		Ulangan			Total	Rata-rata
<i>Dark meat</i> Kalkun	Kulit Kalkun	1	2	3		
100%	0%	17.74845	14.11220	13.44125	45.30190	15.1006
97.5%	2.5%	13.99285	13.11190	13.06935	40.17410	13.3914
95%	5%	13.66005	12.64345	13.05470	39.35820	13.1194
92.5%	7.5%	13.54690	12.47310	12.38155	28.40155	12.8005
90%	10%	13.36875	11.56785	11.77315	36.70975	12.2366

B. Hasil Perhitungan Anova Kadar Protein

Sumber Varian	db	JK	KT	F hitung	F tabel
Perlakuan	4	13.978	3.494	5.649	3.84
Ulangan	2	9.643	4.822		
Galat	8	4.949	0.619		
Total	14	28.569			

Keterangan:

Fhitung > Ftabel → ada beda nyata antar perlakuan

C. Hasil Uji DMRT

No	Perlakuan	Rerata	P =				Notasi
			2	3	4	5	
1	D ₁ S ₁	15.10	-	-	-	-	a
2	D ₂ S ₂	13.39	1.71*	-	-	-	b
3	D ₃ S ₃	13.12	0.27	1.98*	-	-	b
4	D ₄ S ₄	12.80	0.52	0.59	2.30*	-	b
5	D ₅ S ₅	12.24	0.56	0.88	1.15	2.86*	b
rp			3.47	3.52	3.55	3.56	
Rp			1.67	1.69	1.70	1.71	

Keterangan: Nilai rata-rata kadar protein yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata

Tanda * menunjukkan adanya beda nyata antara Rp dan P

$$S_y = \sqrt{GKT/n} = \sqrt{0.619/3} = 0.45$$

Lampiran 4. Data Hasil Analisa Kadar Lemak

A. Data Hasil Pengamatan Kadar Lemak

Perlakuan		Ulangan			Total	Rata-rata
Dark meat Kalkun	Kulit Kalkun	1	2	3		
100%	0%	2.7203	2.7250	3.0637	8.5090	2.8363
97.5%	2.5%	2.9434	3.2360	3.0857	9.2651	3.0884
95%	5%	4.3591	4.8351	3.0931	12.2873	4.0958
92.5%	7.5%	4.3657	5.1536	4.2556	13.7749	4.5916
90%	10%	5.9272	7.9758	4.3278	18.2308	6.0769

B. Hasil Perhitungan Anova Kadar Lemak

Sumber Varian	db	JK	KT	F hitung	F tabel
Perlakuan	4	20.287	5.072	7.886	3.84
Ulangan	2	3.764	1.882		
Galat	8	5.145	0.643		
Total	14	29.195			

Keterangan:

Fhitung > Ftabel → ada beda nyata antar perlakuan

C. Hasil Uji DMRT

No	Perlakuan	Rerata	P =				Notasi
			2	3	4	5	
1	D ₁ S ₁	6.08	-	-	-	-	A
2	D ₂ S ₂	4.59	1.49	-	-	-	ab
3	D ₃ S ₃	4.10	0.49	1.98*	-	-	bc
4	D ₄ S ₄	3.09	1.01	1.50	2.99*	-	bc
5	D ₅ S ₅	2.84	0.25	1.26	1.75*	3.24*	c
rp			3.47	3.52	3.55	3.56	
Rp			1.67	1.69	1.70	1.71	

Keterangan: Nilai rata-rata kadar lemak yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata

Tanda * menunjukkan adanya beda nyata antara Rp dan P

$$S_y = \sqrt{GKT/n} = \sqrt{0.643/3} = 0.46$$

Lampiran 5. Data Hasil Analisa *Water Holding Capacity* (WHC)

A. Data Hasil Pengamatan WHC

Perlakuan		Ulangan			Total	Rata-rata
<i>Dark meat</i> kalkun	kulit kalkun	1	2	3		
100%	0%	28.88365	30.79550	28.21870	87.89785	29.2993
97.5%	2.5%	25.64555	28.27085	27.91610	81.83250	27.2775
95%	5%	26.27525	27.54430	27.79720	81.61675	27.2056
92.5%	7.5%	24.74160	26.50330	27.61705	78.86195	26.2873
90%	10%	25.38910	25.06420	26.37455	76.82785	25.6093

B. Hasil Perhitungan Anova WHC

Sumber Varian	db	JK	KT	F hitung	F tabel
Perlakuan	4	23.267	5.817	6.336	3.84
Ulangan	2	6.758	3.379		
Galat	8	7.345	0.918		
Total	14	37.370			

Keterangan:

Fhitung > Ftabel → ada beda nyata antar perlakuan

C. Hasil Uji DMRT

No	Perlakuan	Rerata	P =				Notasi
			2	3	4	5	
1	D ₁ S ₁	29.30	-	-	-	-	a
2	D ₂ S ₂	27.28	2.02*	-	-	-	b
3	D ₃ S ₃	27.21	0.07	2.09*	-	-	b
4	D ₄ S ₄	26.29	0.92	0.99	3.01*	-	b
5	D ₅ S ₅	25.61	0.68	1.60	1.67	3.69*	b
rp			3.47	3.52	3.55	3.56	
Rp			1.67	1.69	1.70	1.71	

Keterangan: Nilai rata-rata kadar WHC yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata

Tanda * menunjukkan adanya beda nyata antara Rp dan P

$$S_y = \sqrt{GKT/n} = \sqrt{0.918/3} = 0.55$$

Lampiran 6. Data Hasil Analisa *Juiciness*

A. Data Hasil Pengamatan *Juiciness*

Perlakuan		Ulangan			Total	Rata-rata
<i>Dark meat kalkun</i>	Kulit Kalkun	1	2	3		
100%	0%	84	78	89	251	83.67
97.5%	2.5%	72	79	78	229	76.33
95%	5%	80	76	76	232	77.33
92.5%	7.5%	78	68	76	222	74.00
90%	10%	82	77	82	241	80.33

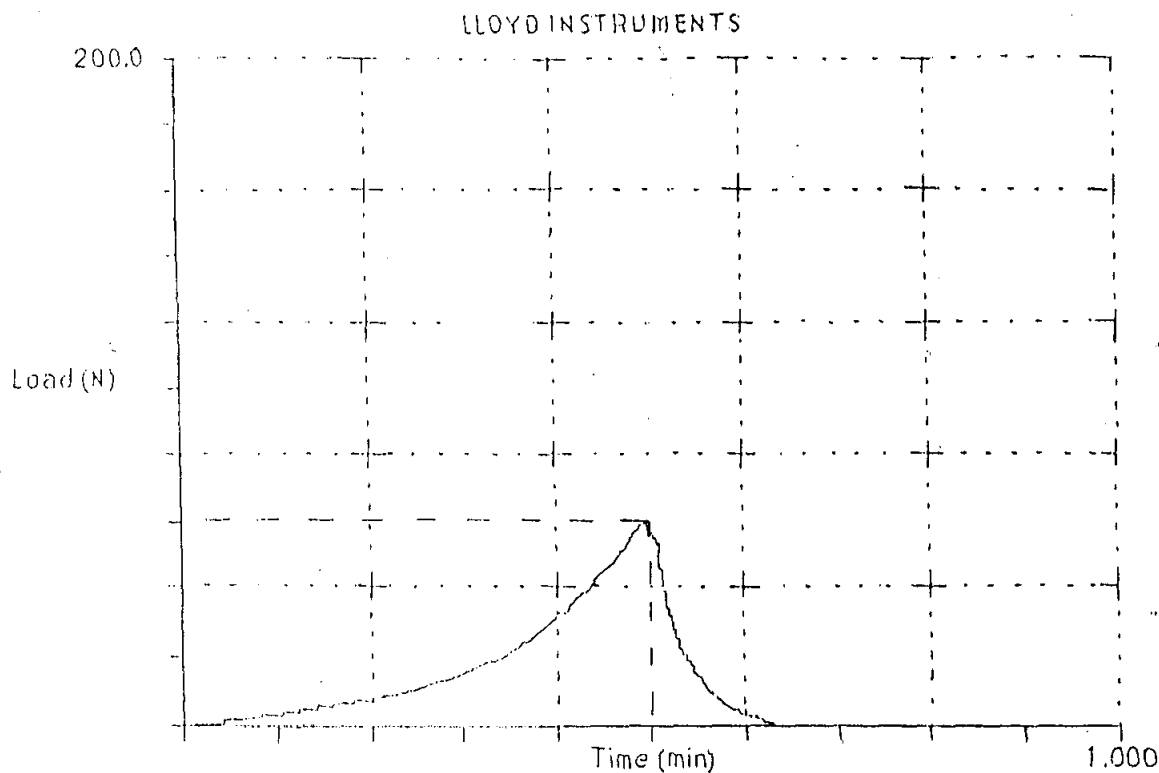
B. Hasil Perhitungan Anova *Juiciness*

Sumber Varian	db	JK	KT	F hitung	F tabel
Perlakuan	4	168.667	42.167	2.956	3.84
Ulangan	2	58.533	29.267		
Galat	8	114.133	14.267		
Total	14	341.333			

Keterangan:

Fhitung < Ftabel → tidak ada beda nyata antar perlakuan

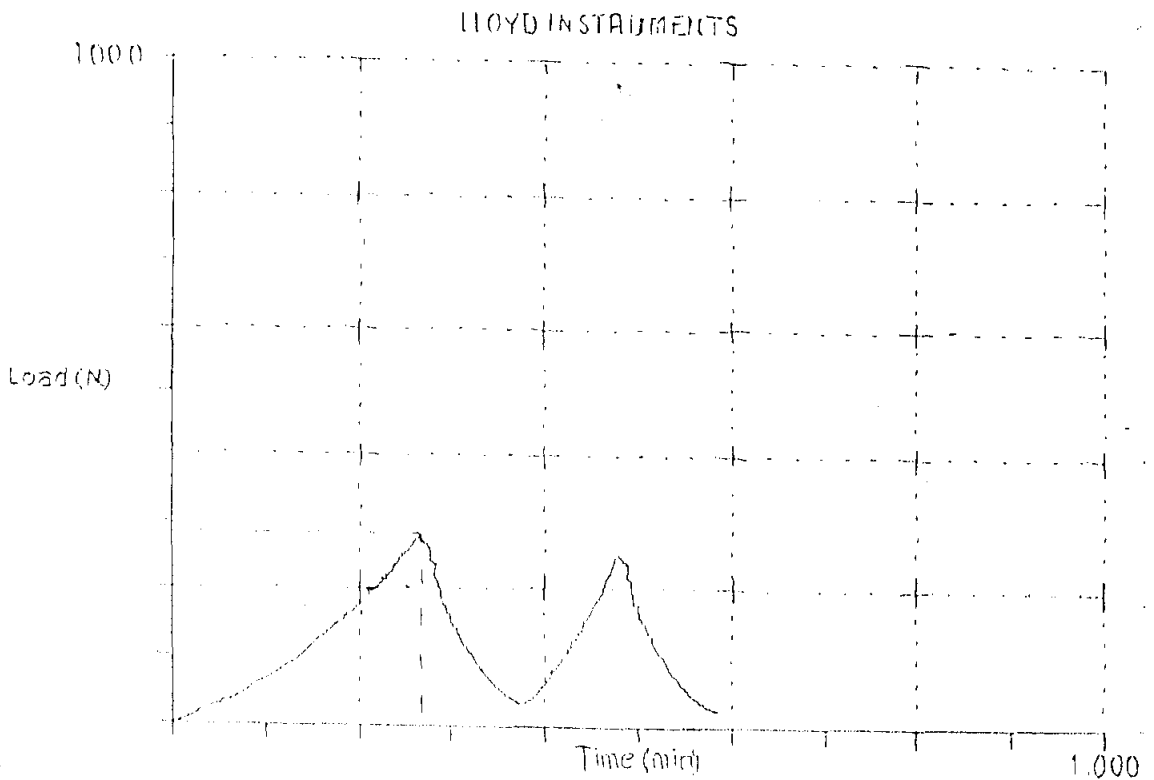
Lampran 7. Texture Profile Analysis Hardness



F_{max}	Δt_{max}
(N)	(min)
60.13	0.4983

t 9 Nov 2002
 to Return.....ON
 to Zero.....ON
 cle.....ON
 unt.....1
 per Cycle Limit.....15.00 mm
 wor Cycle Limit.....0.000 mm
 de.....Compression
 tensometer.....Internal
 st Speed30.00 mm/min
 ch Speed10.00 mm/min
 dth11.00 mm
 pth25.00 mm
 uge Length11.00 mm
 ta saved as file: A:/L31.COA

Lampiran 9. Texture Profile Analysis Elasticity



F_{max}	ωt_{max}
(N)	(min)
28.30	0.2656

Date: 9 Nov 2002
 Auto Return.....ON
 Auto Zero.....ON
 Cycle.....ON
 Count.....2
 Upper Cycle Limit.....8.000 mm
 Lower Cycle Limit.....5.000 mm
 Mode.....Compression
 Transducer.....Internal
 Test Speed.....30.00 mm/min
 Touch Speed.....10.00 mm/min
 Depth.....25.00 mm
 Depth.....25.00 mm
 Gauge Length.....25.00 mm
 Data saved as file: A:\EL12.CDA

Lampiran 9. Data Hasil Analisa *Hardness*

A. Data Hasil Pengamatan *Hardness*

Perlakuan		Ulangan			Total	Rata-rata
<i>Dark meat kalkun</i>	Kulit Kalkun	1	2	3		
100%	0%	76.64	93.14	52.66	222.44	74.15
97.5%	2.5%	67.66	59.74	34.98	162.38	54.11
95%	5%	60.13	86.85	50.30	197.28	65.76
92.5%	7.5%	56.20	42.44	58.17	156.81	52.27
90%	10%	59.74	29.87	34.98	124.59	41.53

Karena keragaman hasil pengamatan *hardness* maka data diuji kehomogenitasnya terlebih dahulu.

B. Uji Homogenitas dengan Uji Bartlett (Gasperz, 1991)

Perlakuan DM : S	db (ri-1)	1/(ri-1)	JK	Si ²	log Si ²	(ri-1) log Si ²
100%:0%	2	0,5	828,64	414,32	2,62	5,24
97,5%:2,5%	2	0,5	581,26	290,63	2,46	4,92
95%:5%	2	0,5	715,50	357,75	2,55	5,10
92,5%:7,5%	2	0,5	146,88	73,44	1,87	3,74
90%:10%	2	0,5	510,46	255,23	2,41	4,82
Jumlah	10	2,5	2782,74			23,82

$$\begin{aligned}
 S^2 &= \frac{\text{total JK}}{\text{Total db}} \\
 &= \frac{2782,74}{10} \\
 &= 278,274
 \end{aligned}$$

$$\log S^2 = 2,44$$

$$\begin{aligned}
 X^2 &= 2,3026 \{ [\sum db (ri-1) \cdot \log S^2] - \sum (ri-1) \cdot \log Si^2 \} \\
 X^2 &= 2,3026 \{ [10 \cdot 2,44] - 23,82 \} \\
 X^2 &= 1,34
 \end{aligned}$$

$$\begin{aligned}
 C &= 1 + \{ 1/[3(t-1)] \} \{ \sum_i 1/(ri-1) - [1/(\sum_i (ri-1))] \} \\
 C &= 1 + \{ 1/(3 \cdot 4) \} \{ 2,5 - 1/10 \} \\
 C &= 1,2
 \end{aligned}$$

$$\begin{aligned}
 X^2_{(\text{terkoreksi})} &= 1/C \cdot X^2 \\
 X^2_{(\text{terkoreksi})} &= 1/1,2 \cdot 1,34 \\
 X^2_{(\text{terkoreksi})} &= 1,12
 \end{aligned}$$

$$X^2_{0,05(4)} = 9,42$$

$$X^2_{(\text{terkoreksi})} < X^2_{\text{tabel}} \rightarrow \text{homogen}$$

C. Hasil Perhitungan Anova *Hardness*

Sumber Varian	db	JK	KT	F hitung	F tabel
Perlakuan	4	1917.270	479.318	2.119	3.84
Ulangan	2	972.881	486.440		
Galat	8	1809.858	226.232		
Total	14	4700.009			

Keterangan:

Fhitung < Ftabel → tidak ada beda nyata antar perlakuan

Lampiran 10. Data Hasil Analisa Elastisitas

A. Data Hasil Pengamatan elastisitas

Perlakuan		Ulangan			Total	Rata-rata
<i>Dark meat kalkun</i>	Kulit Kalkun	1	2	3		
100%	0%	28.69	20.30	16.51	65.50	21.83
97.5%	2.5%	35.17	19.45	12.97	67.59	22.53
95%	5%	24.37	17.88	18.27	60.52	20.17
92.5%	7.5%	15.72	17.10	10.22	43.04	14.35
90%	10%	22.20	11.79	14.93	48.92	16.31

Karena keragaman hasil pengamatan *hardness* maka data diuji kehomogenitasnya terlebih dahulu

B. Uji Homogenitas dengan Uji Bartlett (Gasperz, 1991)

Perlakuan DM : S	db (ri-1)	1/(ri-1)	JK	Si ²	log Si ²	(ri-1) log Si ²
100%:0%	2	0,5	77,70	38,85	1,59	3,18
97,5%:2,5%	2	0,5	260,65	130,32	2,12	4,24
95%:5%	2	0,5	26,49	13,25	1,12	2,24
92,5%:7,5%	2	0,5	26,49	13,25	1,12	2,24
90%:10%	2	0,5	57,03	28,52	1,46	2,92
Jumlah	10	2,5	448,36			14,82

$$\begin{aligned}
 S^2 &= \frac{\text{total JK}}{\text{Total db}} \\
 &= \frac{448,36}{10} \\
 &= 44,836
 \end{aligned}$$

$$\log S^2 = 1,65$$

$$\begin{aligned}
 X^2 &= 2,3026 \{ [\sum db (ri-1) \cdot \log S^2] - \sum (ri-1) \cdot \log Si^2 \} \\
 X^2 &= 2,3026 \{ [10 \cdot 1,65] - 14,82 \} \\
 X^2 &= 3,87
 \end{aligned}$$

$$\begin{aligned}
 C &= 1 + \{ 1/[3(t-1)] \} \{ \sum_i 1/(ri-1) - [1/(\sum_i (ri-1))] \} \\
 C &= 1 + \{ 1/(3 \cdot 4) \} \{ 2,5 - 1/10 \} \\
 C &= 1,2
 \end{aligned}$$

$$\begin{aligned}
 X^2_{(\text{terkoreksi})} &= 1/C \cdot X^2 \\
 X^2_{(\text{terkoreksi})} &= 1/1,2 \cdot 3,87 \\
 X^2_{(\text{terkoreksi})} &= 3,23
 \end{aligned}$$

$$X^2_{0,05(4)} = 9,42$$

$$X^2_{(\text{terkoreksi})} < X^2_{\text{tabel}} \rightarrow \text{homogen}$$

C. Hasil Perhitungan Anova elastisitas

Sumber Varian	db	JK	KT	F hitung	F tabel
Perlakuan	4	152.297	38.074	2.141	3.84
Ulangan	2	306.107	153.053		
Galat	8	142.263	17.783		
Total	14	600.667			

Keterangan:

$F_{hitung} < F_{tabel} \rightarrow$ tidak ada beda nyata antar perlakuan

Lampiran 11. Data Hasil Analisa organoleptik Aroma/Bau Bakso

A. Data Hasil Pengamatan Aroma/Bau

Kode	O51	102	153	204	255	Total
DM No.	100%	98%	95%	93%	90%	
1	6	3	3.06	6	4	22.06
2	2	5	6	5	7	25
3	4	4	6	4	5	23
4	6.44	3.72	5.61	4.44	2.67	22.88
5	4	3	5	3	4	19
6	6	2	4	5	4	21
7	6.22	4.61	5.28	5.72	5.33	27.16
8	2	2	3	6	5	18
9	6	3.5	5	3.78	3	21.28
10	3.61	2.44	2.28	3.28	2.72	14.33
11	6.83	5.28	4	5.61	5.5	27.22
12	4	2	2	2	4	14
13	4.67	5.72	5.78	5.78	5.17	27.12
14	6.17	3.56	3.17	5	4.33	22.23
15	5.5	3.5	4.5	4.5	3.5	21.5
16	5.28	4.5	3.83	4.61	5.22	23.44
17	5.11	6	3.28	4	4.89	23.28
18	6	5	4	5	4	24
19	6.5	5.44	6.44	5.5	6.5	30.38
20	1.44	4	5.28	5.5	2.61	18.83
21	1.33	1.56	1.56	2.22	1.22	7.89
22	6	4	5	3	4	22
23	5	2	1	6	5	19
24	5	3.56	2.33	6	5	21.89
25	6.44	4.5	5.56	4.44	5.5	26.44
26	4.33	4.22	2.33	6.5	4.28	21.66
27	5	4	3	6	4	22
28	4	4	4	5	5	22
29	7	6	2	6	5	26
30	6	5	2	4	4	21
31	4.83	4.28	4.5	3.33	4.78	21.72
32	3	2	3	1	3	12
33	6	4	5	3	3	21
34	7	3	5	3	2	20
35	5	4	3	6	4	22
36	4.56	4.39	4.61	4.11	3.28	20.95

36	4.56	4.39	4.61	4.11	3.28	20.95
37	4	4	4	4	5	21
38	4.5	7	5.44	2.5	6.56	26
39	5.5	4.5	5.5	2.44	3.39	21.33
40	4.5	2.44	5.5	2.44	5.5	20.38
41	5	6	2	4	1	18
42	6.5	3.5	3.5	5.5	4.44	23.44
43	4.39	2.5	4.56	3.56	4.61	19.62
44	5.67	4.22	5.22	2.61	3.39	21.11
45	5	3	4	6	2	20
46	6	4	5	6	5	26
47	5	5	4	5	4	23
48	2	3	2	4	3	14
49	6.56	5.39	3.33	5.61	3.72	24.61
50	6.39	3.61	5.5	5.56	4.28	25.34
Total	249.27	196.94	200.95	222.54	207.39	1077.09
Rerata	4.9854	3.9388	4.019	4.4508	4.1478	21.5418

B. Hasil Perhitungan Anova Aroma

Sumber Varian	db	JK	KT	F hitung	F tabel
Antar perlakuan	4	36.238	9.059	5.07328	2.41
Diantara perlakuan	245	437.501	1.786		
Total	249	473.739			

Keterangan:

Fhitung > Ftabel → ada beda nyata antar perlakuan

C. Hasil Uji DMRT

No	Perlakuan	Rerata	P =				Notasi
			2	3	4	5	
1	D ₁ S ₁	4.99	-	-	-	-	a
2	D ₂ S ₂	3.94	1.05*	-	-	-	b
3	D ₃ S ₃	4.02	0.08	0.97*	-	-	b
4	D ₄ S ₄	4.45	0.43	0.51	0.54	-	ab
5	D ₅ S ₅	4.15	0.30	0.31	0.21	0.84*	b
Rp			3.47	3.52	3.55	3.56	
Rp			0.66	0.67	0.67	0.68	

Keterangan: Nilai rata-rata aroma yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata
Tanda * menunjukkan adanya beda nyata antara Rp dan P

$$Sy = \sqrt{GKT/n} = \sqrt{1.786/50} = 0.19$$

Lampiran 12. Data Hasil Analisa organoleptik Tekstur Bakso

A. Data Hasil Pengamatan Tekstur

Kode	501	120	531	402	552	
DM	100%	98%	95%	93%	90%	Total
No.						
1	5.39	5.44	5.5	5.39	5.5	27.22
2	7	2	1	3	6	19
3	4	4	3	6	5	22
4	3.72	2.5	5.83	4.28	5.28	21.61
5	2	5	4	3	6	20
6	6	6	5	4	3	24
7	2.78	7	6.28	6.33	6.33	28.72
8	6	3	5	3	2	19
9	3.44	6.56	4.5	3	5.5	23
10	1.94	2.33	5.44	3	2.72	15.43
11	6.78	3.17	6.56	4.22	1.83	22.56
12	4	4	4	4	4	20
13	3.39	3.22	6.33	4.33	6.28	23.55
14	4.56	6.5	5.5	3.78	3.67	24.01
15	5.5	4.5	2.5	6.5	4.5	23.5
16	5	4	4.28	5	3.83	22.11
17	2	6.78	3.56	3	5.61	20.95
18	4	5	6	4	5	24
19	5.5	4.5	6.5	5.44	4.5	26.44
20	4.44	4.5	4.56	4.44	4.44	22.38
21	5.44	6.28	5.28	6.28	3.61	26.89
22	3	6	5	3	4	21
23	3	3	2	5	4	17
24	5.67	3.44	2.44	2.5	2.44	16.49
25	6.44	3.39	4.44	5.33	5.44	25.04
26	4.94	6.28	2.22	5.72	3.22	22.38
27	1	5	3	6	2	17
28	2	3	3	5	6	19
29	4	6	3	7	6	26
30	2	3	2	2	2	11
31	5.78	4.22	5.22	6.44	5.83	27.49
32	5	3	3	4	4	19
33	6	5	4	3	4	22
34	7	2	3.56	1	6	19.56
35	6	3	4	6	6	25

36	2.33	4.22	4.78	2.78	3.39	17.5
37	3.44	3.5	4	3.5	4	18.44
38	3.56	4.44	5.39	2.5	3.56	19.45
39	4.56	4.44	4.39	5.5	2.39	21.28
40	3.44	5.39	1.5	2.33	3.67	16.33
41	5	5	3	4	2	19
42	6.5	3.44	3.5	4.5	4.44	22.38
43	2.22	4.44	5.56	3.56	3.61	19.39
44	6.56	3.5	4.5	2.56	4.67	21.79
45	6	2	2	3	4	17
46	6	3	5	5.61	4	23.61
47	6	5	6	2	7	26
48	4	6	3	4	3	20
49	6.5	2.22	4.33	5.61	5.17	23.83
50	6	3.33	4.5	5.56	6.56	25.95
Total	226.82	212.53	208.95	210.99	216.99	1076.28
Rerata	4.5364	4.2506	4.179	4.2198	4.3398	21.5256

B. Hasil Perhitungan Anova Tekstur

Sumber Varian	db	JK	KT	F hitung	F tabel
Antar perlakuan	4	4.043	1.011	0.480	2.41
Diantara perlakuan	245	516.336	2.107		
Total	249	520.379			

Keterangan:

$F_{hitung} < F_{tabel} \rightarrow$ tidak ada beda nyata antar perlakuan

Lampiran 13. Data Hasil Analisa organoleptik Rasa Bakso

A. Data Hasil Pengamatan Rasa

Kode	105	210	315	420	525	Total
DM No.	100%	98%	95%	93%	90%	
1	5.22	6.33	5.22	5.22	5.22	27.21
2	5	2	3	1	4	15
3	5	5	4	4	6	24
4	5.28	3.83	6.33	2.78	4.39	22.61
5	5	5	5	4	6	25
6	7	5	4	5	3	24
7	4	5.17	3.28	3	4.67	20.12
8	3	6	5	5	5	24
9	3	5.5	4	3	5	20.5
10	2.22	2.44	4.61	2.78	3	15.05
11	5	2.72	6.83	4.17	1.78	20.5
12	3	5	4	4	6	22
13	4.28	4.72	5.28	3.28	4.78	22.34
14	3.44	4.67	6.39	2	3.78	20.28
15	5.5	5.5	2.5	6.5	4.5	24.5
16	6.44	5	2.44	4.5	4.28	22.66
17	3.22	6.72	5.67	3.5	5.22	24.33
18	5	4	4	3	6	22
19	4.5	2.44	6.44	5.5	6.44	25.32
20	4.44	1.39	3.5	3.44	6.5	19.27
21	5.5	6.39	5.39	6.28	3.67	27.23
22	4	6	2	2	3	17
23	6	3	1	2	5	17
24	6	3.11	2.56	2.17	5.33	19.17
25	2	4	3	6	3	18
26	4.39	2.5	2.44	5.83	3.17	18.33
27	4	3	2	5	1	15
28	5	3	1	6	5	20
29	7	3	2	7	6	25
30	7	3	5	6	6	27
31	6.17	4.17	4.78	4.5	4.72	24.34
32	1	2	3	2	5	13
33	1	5	3	2	4	15
34	6	3.5	3	5	6	23.5
35	6	5	4	6	6	27
36	5.17	3.56	3.22	2.67	4.33	18.95

37	4	4	5.5	4	4	21.5
38	1.5	3.61	5.44	3.5	1.44	15.49
39	1.44	3.56	5.44	3.5	3.5	17.44
40	3.39	2.56	5.39	2.44	3.44	17.22
41	5	6	2	4	1	18
42	6.5	3.44	3.56	5.5	4.5	23.5
43	4.5	5.61	2.56	3.33	4.5	20.5
44	6.56	4.67	3.33	4.72	5.83	25.11
45	6	2	5	6	4	23
46	6	3.44	4.67	5.61	4	23.72
47	7	2	3	2	4	18
48	6	3	5	2	3	19
49	5.56	1.72	4.44	3.28	6.61	21.61
50	6.5	4	3.61	5.61	5	24.72
Total	235.72	198.27	197.82	201.61	221.6	1055.02
Rerata	4.7144	3.9654	3.9564	4.0322	4.432	21.1004

B. Hasil Perhitungan Anova Rasa

Sumber Varian	db	JK	KT	F hitung	F tabel
Antar perlakuan	4	22.948	5.737	2.638	2.41
Diantara perlakuan	245	532.903	2.175		
Total	249	555.851			

Keterangan:

Fhitung > Ftabel → ada beda nyata antar perlakuan

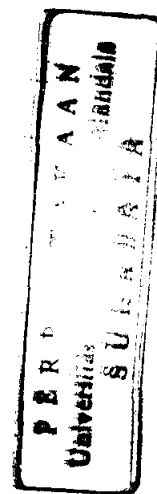
C. Hasil Uji DMRT

No	Perlakuan	Rerata	P =				Notasi
			2	3	4	5	
1	D ₁ S ₁	4.71	-	-	-	-	a
2	D ₂ S ₂	3.97	0.74*	-	-	-	b
3	D ₃ S ₃	3.96	0.01	0.75*	-	-	b
4	D ₄ S ₄	4.03	0.07	0.06	0.68	-	ab
5	D ₅ S ₅	4.43	0.40	0.47	0.46	0.28	ab
	Rp		3.47	3.52	3.55	3.56	
	Rp		0.73	0.74	0.75	0.75	

Keterangan: Nilai rata-rata rasa yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata

Tanda * menunjukkan adanya beda nyata antara Rp dan P

$$Sy = \sqrt{GKT/n} = \sqrt{2.0175/50} = 0.21$$



Lampiran 14. Analisa Uji Perlakuan Terbaik (*Effectiveness Index*)

Variabel	BV	BN	D ₁ S ₁		D ₂ S ₂		D ₃ S ₃		D ₄ S ₄		D ₅ S ₅	
			ne	nh	ne	nh	ne	nh	ne	nh	ne	nh
O.Tekstur	1	0.1176	1	0.1176	0.2003	0.0236	0	0	0.1142	0.0134	0.4499	0.0530
O.Rasa	1	0.1176	1	0.1176	0.0119	0.0014	0	0	0.1	0.0118	0.6274	0.0738
O.Bau	1	0.1176	1	0.1176	0	0	0.1454	0.0171	0.4892	0.0575	0.1997	0.0235
Hardness	0.9	0.1059	1	0.1059	0.3857	0.0408	0.7428	0.0787	0.3292	0.0349	0	0
Elastisitas	0.9	0.1059	0.9144	0.0968	1	0.1059	0.7115	0.0753	0	0	0.2396	0.0254
WHC	0.8	0.0941	1	0.0941	0.4521	0.0425	0.4326	0.0407	0.1837	0.0173	0	0
Juiciness	0.8	0.0941	1	0.0941	0.2410	0.0227	0.3444	0.0324	0	0	0.6546	0.0616
K.Air	0.7	0.0824	1	0.0824	0.5163	0.0425	0.3895	0.0321	0.2560	0.0211	0	0
K.Protein	0.7	0.0824	1	0.0824	0.4032	0.0332	0.3082	0.0254	0.1969	0.0162	0	0
K.Lemak	0.7	0.0824	0	0	0.0778	0.0641	0.3887	0.0320	0.5417	0.0446	1	0.0824
Total	8.5			0.9085		0.3767		0.3337		0.2168		0.3194

BV = Bobot Variabel
 BN = Bobot Normal
 ne = nilai efektifitas
 nh = nilai hasil

Contoh perhitungan:

Nilai perlakuan (D₁S₁) = 4.5364
 Nilai terjelek (D₁S₁) = 4.1790
 Nilai terbaik (D₁S₁) = 4.5364

Bobot variabel = 1
 Total bobot variabel = 8.5

Bobot normal = $\frac{BV}{\text{Total BV}} = \frac{1}{8.5} = 0.1176$
 Nilai Efektifitas = $\frac{\text{Nilai perlakuan} - \text{Nilai terjelek}}{\text{Nilai terbaik} - \text{Nilai terjelek}} = 1$
 Nilai Hasil = ne x BN = 0.1176