

## 7. LAMPIRAN

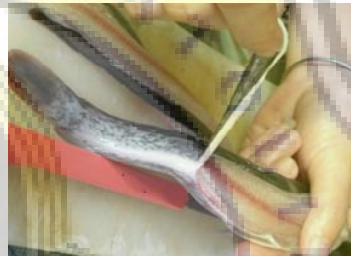
### 7.1. Gambar Beberapa Proses Pada Pembuatan Bakso Ikan Lele Mulai Dari Kolam Pembudidayaan



Gambar 7. Kolam Pembudidayaan Ikan Lele



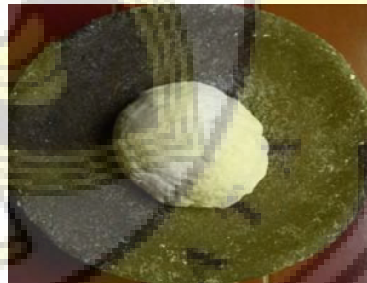
Gambar 8. Pembuangan Kepala dan Isi Perut



Gambar 9. Proses *Skinning*



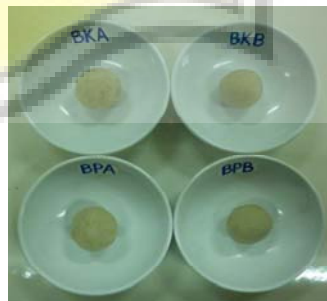
Gambar 10. Proses *Filleting*



Gambar 11. Adonan Bakso Ikan Lele



Gambar 12. Pemasakan (perebusan)



Gambar 13. Bakso Ikan Lele

## 7.2. Lembar Kuesioner Uji Ranking Hedonik

### UJI RANKING HEDONIK

Nama : \_\_\_\_\_ Tanggal : \_\_\_\_\_  
 Sampel : Bakso Ikan  
 Atribut : Warna, Aroma, Rasa, Tekstur, *Overall*

Dihadapan Anda terdapat 4 sampel bakso ikan dan satu gelas air putih. Anda diminta untuk mencoba ke 4 sampel bakso ikan yang telah tersedia. Sebaiknya berkumurlah dengan air putih sebelum merasakan sampel berikutnya. Anda boleh mengulang sesering yang Anda perlukan. Kemudian berilah skor pada masing-masing kode sampel, dari yang paling anda sukai hingga paling tidak disukai sesuai parameter yang telah disediakan, dengan penilaian sebagai berikut :

- 1 = paling tidak disukai
- 2 = tidak disukai
- 3 = disukai
- 4 = paling disukai

**Tidak diperbolehkan memberi skor yang sama (*ranking*)!**

Kode Sampel	Warna	Aroma	Rasa	Tekstur	<i>Overall</i>

Komentar :

.....  
 .....  
 .....

Parameter warna dinilai berdasarkan pengamatan panelis, aroma dinilai dengan cara dibau, rasa dinilai dengan cara mencoba sampel, tekstur dinilai dengan cara menggigit sampel, sedangkan overall merupakan penilaian panelis terhadap sifat keseluruhan dari produk.

### 7.3. Hasil Analisa Data

#### 7.3.1. Uji Sensori Penelitian Pendahuluan

Test Statistics <sup>a,b</sup>

	Warna	Aroma	Rasa	Tekstur	Ovr
Chi-Square	16.078	7.140	10.208	5.448	14.333
df	3	3	3	3	3
Asymp. Sig.	.001	.068	.017	.142	.002

a. Kruskal Wallis Test

b. Grouping Variable: Treat

#### Tapioka 10% vs Tapioka 15%

Test Statistics <sup>a</sup>

	Warna	Rasa	Ovr
Mann-Whitney U	353.000	391.500	411.000
Wilcoxon W	818.000	856.500	876.000
Z	-1.500	-.908	-.604
Asymp. Sig. (2-tailed)	.134	.364	.546

a. Grouping Variable: Treat

#### Tapioka 10% vs Tapioka 20%

Test Statistics <sup>a</sup>

	Warna	Rasa	Ovr
Mann-Whitney U	265.500	330.000	298.000
Wilcoxon W	730.500	795.000	763.000
Z	-2.896	-1.848	-2.324
Asymp. Sig. (2-tailed)	.004	.065	.020

a. Grouping Variable: Treat

#### Tapioka 10% vs Tapioka 25%

Test Statistics <sup>a</sup>

	Warna	Rasa	Ovr
Mann-Whitney U	297.500	301.500	293.000
Wilcoxon W	762.500	766.500	758.000
Z	-2.330	-2.271	-2.397
Asymp. Sig. (2-tailed)	.020	.023	.017

a. Grouping Variable: Treat

#### Tapioka 15% vs Tapioka 20%

Test Statistics <sup>a</sup>

	Warna	Rasa	Ovr
Mann-Whitney U	233.500	308.000	261.000
Wilcoxon W	698.500	773.000	726.000
Z	-3.307	-2.171	-2.886
Asymp. Sig. (2-tailed)	.001	.030	.004

a. Grouping Variable: Treat

## Tapioka 15% vs Tapioka 25%

Test Statistics <sup>a</sup>

	Warna	Rasa	Ovr
Mann-Whitney U	283.500	290.500	258.000
Wilcoxon W	748.500	755.500	723.000
Z	-2.610	-2.453	-2.935
Asymp. Sig. (2-tailed)	.009	.014	.003

a. Grouping Variable: Treat

## Tapioka 20% vs Tapioka 25%

Test Statistics <sup>a</sup>

	Warna	Rasa	Ovr
Mann-Whitney U	409.000	398.000	439.000
Wilcoxon W	874.000	863.000	904.000
Z	-.635	-.808	-.170
Asymp. Sig. (2-tailed)	.526	.419	.865

a. Grouping Variable: Treat

## 7.3.2. Normalitas Data

## Adonan Bakso (sebelum pemasakan)

Tests of Normality

Sampel		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Air	1.00	.195	5	.200*	.923	5	.551
	2.00	.195	5	.200*	.955	5	.775
	3.00	.209	5	.200*	.956	5	.777
	4.00	.205	5	.200*	.957	5	.787
Abu	1.00	.263	5	.200*	.873	5	.278
	2.00	.199	5	.200*	.973	5	.895
	3.00	.182	5	.200*	.982	5	.944
	4.00	.146	5	.200*	.983	5	.951
Prot	1.00	.308	5	.137	.848	5	.190
	2.00	.273	5	.200*	.885	5	.331
	3.00	.218	5	.200*	.956	5	.783
	4.00	.196	5	.200*	.936	5	.636
Lemak	1.00	.247	5	.200*	.918	5	.516
	2.00	.281	5	.200*	.912	5	.477
	3.00	.258	5	.200*	.871	5	.272
	4.00	.315	5	.118	.836	5	.155
Srtksr	1.00	.194	5	.200*	.957	5	.785
	2.00	.244	5	.200*	.820	5	.117
	3.00	.268	5	.200*	.824	5	.126
	4.00	.239	5	.200*	.911	5	.475
KH	1.00	.275	5	.200*	.926	5	.568
	2.00	.165	5	.200*	.969	5	.867
	3.00	.212	5	.200*	.932	5	.607
	4.00	.246	5	.200*	.950	5	.739

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

a. Lilliefors Significance Correction

## Bakso Ikan Lele

## Tests of Normality

Sampel	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Air	1.00	.328	5	.083	.824	5	.124
	2.00	.269	5	.200*	.850	5	.195
	3.00	.286	5	.200*	.836	5	.154
	4.00	.199	5	.200*	.967	5	.859
Abu	1.00	.244	5	.200*	.835	5	.151
	2.00	.226	5	.200*	.963	5	.828
	3.00	.204	5	.200*	.928	5	.584
	4.00	.305	5	.144	.861	5	.231
Prot	1.00	.237	5	.200*	.907	5	.450
	2.00	.216	5	.200*	.879	5	.306
	3.00	.198	5	.200*	.935	5	.632
	4.00	.307	5	.140	.838	5	.159
Lemak	1.00	.235	5	.200*	.907	5	.449
	2.00	.290	5	.197	.844	5	.178
	3.00	.199	5	.200*	.931	5	.602
	4.00	.189	5	.200*	.933	5	.620
Srtksr	1.00	.232	5	.200*	.913	5	.485
	2.00	.283	5	.200*	.841	5	.167
	3.00	.263	5	.200*	.919	5	.525
	4.00	.257	5	.200*	.835	5	.153
KH	1.00	.262	5	.200*	.902	5	.421
	2.00	.280	5	.200*	.859	5	.225
	3.00	.267	5	.200*	.842	5	.171
	4.00	.234	5	.200*	.956	5	.783

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

a. Lilliefors Significance Correction

## 7.3.3. Uji Kimia

## Daging Lele Mentah

## Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Air	Equal variances assumed	.058	.815	72.626	8	.000	.42720	.00588	.41364	.44076
	Equal variances not assumed			72.626	7.419	.000	.42720	.00588	.41345	.44095
Abu	Equal variances assumed	1.572	.245	46.863	8	.000	.35000	.00747	.33278	.36722
	Equal variances not assumed			46.863	7.674	.000	.35000	.00747	.33265	.36735
Prot	Equal variances assumed	.858	.381	-86.094	8	.000	-1.58800	.01845	-1.63053	-1.54547
	Equal variances not assumed			-86.094	6.373	.000	-1.58800	.01845	-1.63250	-1.54350
Lemak	Equal variances assumed	1.545	.249	59.245	8	.000	1.03280	.01743	.99260	1.07300
	Equal variances not assumed			59.245	6.927	.000	1.03280	.01743	.99149	1.07411
Srtksr	Equal variances assumed	5.453	.048	-5.525	8	.001	-.08860	.01604	-.12558	-.05162
	Equal variances not assumed			-5.525	6.286	.001	-.08860	.01604	-.12741	-.04979
KH	Equal variances assumed	.278	.612	-16.605	8	.000	-.22240	.01339	-.25328	-.19152
	Equal variances not assumed			-16.605	6.791	.000	-.22240	.01339	-.25427	-.19053
pH	Equal variances assumed	4.045	.079	-2.209	8	.058	-.04000	.01811	-.08176	.00176
	Equal variances not assumed			-2.209	5.832	.071	-.04000	.01811	-.08463	.00463

## Adonan Bakso (sebelum pemasakan)

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Air	Between Groups	15.657	3	5.219	160.245	.000
	Within Groups	.521	16	.033		
	Total	16.178	19			
Abu	Between Groups	.789	3	.263	55.386	.000
	Within Groups	.076	16	.005		
	Total	.865	19			
Prot	Between Groups	11.140	3	3.713	272.890	.000
	Within Groups	.218	16	.014		
	Total	11.358	19			
Lemak	Between Groups	1.923	3	.641	117.356	.000
	Within Groups	.087	16	.005		
	Total	2.011	19			
Srtksr	Between Groups	.488	3	.163	55.579	.000
	Within Groups	.047	16	.003		
	Total	.535	19			
KH	Between Groups	42.006	3	14.002	702.274	.000
	Within Groups	.319	16	.020		
	Total	42.325	19			

## Air

Student-Newman-Keuls<sup>a</sup>

Sakmasak	N	Subset for alpha = .05			
		1	2	3	4
4.00	5	61.2160			
2.00	5		62.3180		
3.00	5			62.8284	
1.00	5				63.6584
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## Abu

Student-Newman-Keuls<sup>a</sup>

Sakmasak	N	Subset for alpha = .05		
		1	2	3
2.00	5	1.8314		
3.00	5		2.0738	
4.00	5		2.1098	
1.00	5			2.3914
Sig.		1.000	.421	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## Prot

Student-Newman-Keuls<sup>a</sup>

Sakmasak	N	Subset for alpha = .05			
		1	2	3	4
2.00	5	16.7714			
1.00	5		17.3196		
4.00	5			17.5606	
3.00	5				18.8092
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## Lemak

Student-Newman-Keuls<sup>a</sup>

Sakmasak	N	Subset for alpha = .05		
		1	2	3
4.00	5	1.7144		
3.00	5		2.0666	
2.00	5			2.4192
1.00	5			2.4930
Sig.		1.000	1.000	.134

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

**Srtksr**

Student-Newman-Keuls<sup>a</sup>

Sakmasak	N	Subset for alpha = .05		
		1	2	3
1.00	5	.8434		
2.00	5		1.0470	
3.00	5			1.1884
4.00	5			1.2496
Sig.		1.000	1.000	.093

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

**KH**

Student-Newman-Keuls<sup>a</sup>

Sakmasak	N	Subset for alpha = .05		
		1	2	3
1.00	5	14.1374		
3.00	5	14.2214		
2.00	5		16.6604	
4.00	5			17.3992
Sig.		.361	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

**Bakso Ikan Lele**

**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
Air	Between Groups	5.477	3	1.826	25.035	.000
	Within Groups	1.167	16	.073		
	Total	6.644	19			
Abu	Between Groups	.575	3	.192	165.037	.000
	Within Groups	.019	16	.001		
	Total	.593	19			
Prot	Between Groups	5.924	3	1.975	75.914	.000
	Within Groups	.416	16	.026		
	Total	6.340	19			
Lemak	Between Groups	1.516	3	.505	14.133	.000
	Within Groups	.572	16	.036		
	Total	2.089	19			
Srtksr	Between Groups	.443	3	.148	33.241	.000
	Within Groups	.071	16	.004		
	Total	.514	19			
KH	Between Groups	18.431	3	6.144	68.408	.000
	Within Groups	1.437	16	.090		
	Total	19.868	19			

**Air**

Duncan<sup>a</sup>

Sakmasak	N	Subset for alpha = .05		
		1	2	3
4.00	5	65.4006		
2.00	5		66.2854	
3.00	5		66.5932	66.5932
1.00	5			66.7552
Sig.		1.000	.090	.357

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

**Abu**

Duncan<sup>a</sup>

Sakmasak	N	Subset for alpha = .05			
		1	2	3	4
2.00	5	1.4092			
4.00	5		1.4808		
3.00	5			1.5702	
1.00	5				1.8554
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## Prot

Duncan <sup>a</sup>

Sakmasak	N	Subset for alpha = .05			
		1	2	3	4
2.00	5	15.3248			
4.00	5		15.8716		
1.00	5			16.1624	
3.00	5				16.8338
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## Lemak

Duncan <sup>a</sup>

Sakmasak	N	Subset for alpha = .05		
		1	2	3
4.00	5	.9898		
3.00	5	.9946		
2.00	5		1.2636	
1.00	5			1.6648
Sig.		.968	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## Srtksr

Duncan <sup>a</sup>

Sakmasak	N	Subset for alpha = .05			
		1	2	3	4
1.00	5	1.0512			
2.00	5		1.2410		
3.00	5			1.3494	
4.00	5				1.4532
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## KH

Student-Newman-Keuls <sup>a</sup>

Sakmasak	N	Subset for alpha = .05		
		1	2	3
1.00	5	13.9632		
3.00	5	14.0088		
2.00	5		15.3160	
4.00	5			16.2572
Sig.		.813	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.



### 7.3.4. Uji Tekstur Objektif

#### Daging Lele Mentah

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Hardness_N	Equal variances assumed	.245	.634	-6.565	8	.000	-3.41408	.52003	-4.61328	-2.21489
	Equal variances not assumed			-6.565	6.896	.000	-3.41408	.52003	-4.64754	-2.18062
Cohesiveness	Equal variances assumed	2.723	.138	1.696	8	.128	.02807	.01655	-.01010	.06623
	Equal variances not assumed			1.696	5.294	.147	.02807	.01655	-.01377	.06991
Springiness_mm	Equal variances assumed	2.358	.163	-.495	8	.634	-.12016	.24289	-.68027	.43994
	Equal variances not assumed			-.495	5.707	.639	-.12016	.24289	-.72196	.48163
Chewiness_Nm	Equal variances assumed	.009	.928	-.679	8	.516	-.00018	.00027	-.00080	.00044
	Equal variances not assumed			-.679	7.986	.516	-.00018	.00027	-.00080	.00044
Adhesiveness_Nm	Equal variances assumed	1.975	.198	-.059	8	.954	-.00001	.00015	-.00035	.00034
	Equal variances not assumed			-.059	4.320	.956	-.00001	.00015	-.00041	.00040

#### Adonan Bakso (sebelum pemasakan)

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
HardADN	Between Groups	2.309	3	.770	2.848	.070
	Within Groups	4.323	16	.270		
	Total	6.631	19			
CoheADN	Between Groups	.010	3	.003	2.624	.086
	Within Groups	.021	16	.001		
	Total	.031	19			
SpringADN	Between Groups	2.954	3	.985	4.933	.013
	Within Groups	3.194	16	.200		
	Total	6.147	19			
ChewiADN	Between Groups	.000	3	.000	6.576	.004
	Within Groups	.000	16	.000		
	Total	.000	19			
AdhesADN	Between Groups	.000	3	.000	2.647	.084
	Within Groups	.000	16	.000		
	Total	.000	19			

HardADN

Student-Newman-Keuls<sup>a</sup>

Sampel	N	Subset for alpha = .05
		1
1.00	5	2.9256
2.00	5	3.6788
4.00	5	3.6806
3.00	5	3.7603
Sig.		.091

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## CohesADN

Student-Newman-Keuls <sup>a</sup>		
Sampel	N	Subset for alpha = .05
		1
3.00	5	.2039
1.00	5	.2058
4.00	5	.2420
2.00	5	.2561
Sig.		.144

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## SpringADN

Student-Newman-Keuls <sup>a</sup>			
Sampel	N	Subset for alpha = .05	
		1	2
3.00	5	4.1760	
1.00	5	4.3898	
4.00	5	4.6570	4.6570
2.00	5		5.2031
Sig.		.235	.071

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## ChewiADN

Student-Newman-Keuls <sup>a</sup>				
Sampel	N	Subset for alpha = .05		
		1	2	3
1.00	5	.0026		
3.00	5	.0032	.0032	
4.00	5		.0041	.0041
2.00	5			.0050
Sig.		.338	.127	.148

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## AdhesADN

Student-Newman-Keuls <sup>a</sup>		
Sampel	N	Subset for alpha = .05
		1
1.00	5	.0004
4.00	5	.0005
3.00	5	.0005
2.00	5	.0009
Sig.		.094

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## Bakso Ikan Lele

## ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
HardBSO	Between Groups	411.804	3	137.268	100.022	.000
	Within Groups	21.958	16	1.372		
	Total	433.762	19			
CohesBSO	Between Groups	.032	3	.011	6.984	.003
	Within Groups	.025	16	.002		
	Total	.057	19			
SpringBSO	Between Groups	8.001	3	2.667	18.457	.000
	Within Groups	2.312	16	.144		
	Total	10.313	19			
ChewiBSO	Between Groups	.004	3	.001	50.779	.000
	Within Groups	.000	16	.000		
	Total	.004	19			
AdhesBSO	Between Groups	.000	3	.000	7.816	.002
	Within Groups	.000	16	.000		
	Total	.000	19			

**HardBSO**Student-Newman-Keuls <sup>a</sup>

Sampel	N	Subset for alpha = .05			
		1	2	3	4
1.00	5	7.7970			
2.00	5		11.6005		
3.00	5			14.5781	
4.00	5				20.2138
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

**CohesBSO**Student-Newman-Keuls <sup>a</sup>

Sampel	N	Subset for alpha = .05	
		1	2
1.00	5	.1763	
2.00	5		.2293
3.00	5		.2617
4.00	5		.2832
Sig.		1.000	.097

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

**SpringBSO**Student-Newman-Keuls <sup>a</sup>

Sampel	N	Subset for alpha = .05	
		1	2
1.00	5	6.5932	
2.00	5		7.7672
3.00	5		7.8622
4.00	5		8.3027
Sig.		1.000	.097

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

**ChewiBSO**Student-Newman-Keuls <sup>a</sup>

Sampel	N	Subset for alpha = .05			
		1	2	3	4
1.00	5	.0092			
2.00	5		.0208		
3.00	5			.0300	
4.00	5				.0475
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

**AdhesBSO**Student-Newman-Keuls <sup>a</sup>

Sampel	N	Subset for alpha = .05	
		1	2
3.00	5	.0000	
1.00	5	.0001	
4.00	5		.0007
2.00	5		.0011
Sig.		.861	.169

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

## 7.3.5. Uji Sensori

Test Statistics <sup>a,b</sup>

	Warna	Aroma	Rasa	Tekstur	Overall
Chi-Square	4.496	7.828	9.943	25.440	36.916
df	3	3	3	3	3
Asymp. Sig.	.213	.050	.019	.000	.000

a. Kruskal Wallis Test

b. Grouping Variable: Treat

## Bakso K20 vs K25

Test Statistics <sup>a</sup>

	Rasa	Tekstur	Overall	Aroma
Mann-Whitney U	312.500	344.000	213.000	436.500
Wilcoxon W	777.500	809.000	678.000	901.500
Z	-2.109	-1.656	-3.684	-.207
Asymp. Sig. (2-tailed)	.035	.098	.000	.836

a. Grouping Variable: Treat

## Bakso K20 vs P20

Test Statistics <sup>a</sup>

	Rasa	Tekstur	Overall	Aroma
Mann-Whitney U	305.000	207.000	187.000	388.500
Wilcoxon W	770.000	672.000	652.000	853.500
Z	-2.223	-3.729	-4.074	-.943
Asymp. Sig. (2-tailed)	.026	.000	.000	.346

a. Grouping Variable: Treat

## Bakso K25 vs P20

Test Statistics <sup>a</sup>

	Rasa	Tekstur	Overall	Aroma
Mann-Whitney U	434.500	339.000	416.000	404.000
Wilcoxon W	899.500	804.000	881.000	869.000
Z	-.237	-1.697	-.521	-.703
Asymp. Sig. (2-tailed)	.813	.090	.602	.482

a. Grouping Variable: Treat

## Bakso K25 vs P25

Test Statistics <sup>a</sup>

	Rasa	Tekstur	Overall	Aroma
Mann-Whitney U	388.000	275.000	277.000	302.500
Wilcoxon W	853.000	740.000	742.000	767.500
Z	-.950	-2.688	-2.680	-2.262
Asymp. Sig. (2-tailed)	.342	.007	.007	.024

a. Grouping Variable: Treat

## Bakso K20 vs P25

Test Statistics <sup>a</sup>

	Rasa	Tekstur	Overall	Aroma
Mann-Whitney U	252.500	139.000	80.000	285.000
Wilcoxon W	717.500	604.000	545.000	750.000
Z	-3.021	-4.753	-5.670	-2.521
Asymp. Sig. (2-tailed)	.003	.000	.000	.012

a. Grouping Variable: Treat

## Bakso P20 vs P25

Test Statistics <sup>a</sup>

	Rasa	Tekstur	Overall	Aroma
Mann-Whitney U	409.500	366.000	303.000	342.500
Wilcoxon W	874.500	831.000	768.000	807.500
Z	-.621	-1.306	-2.285	-1.650
Asymp. Sig. (2-tailed)	.534	.192	.022	.099

a. Grouping Variable: Treat

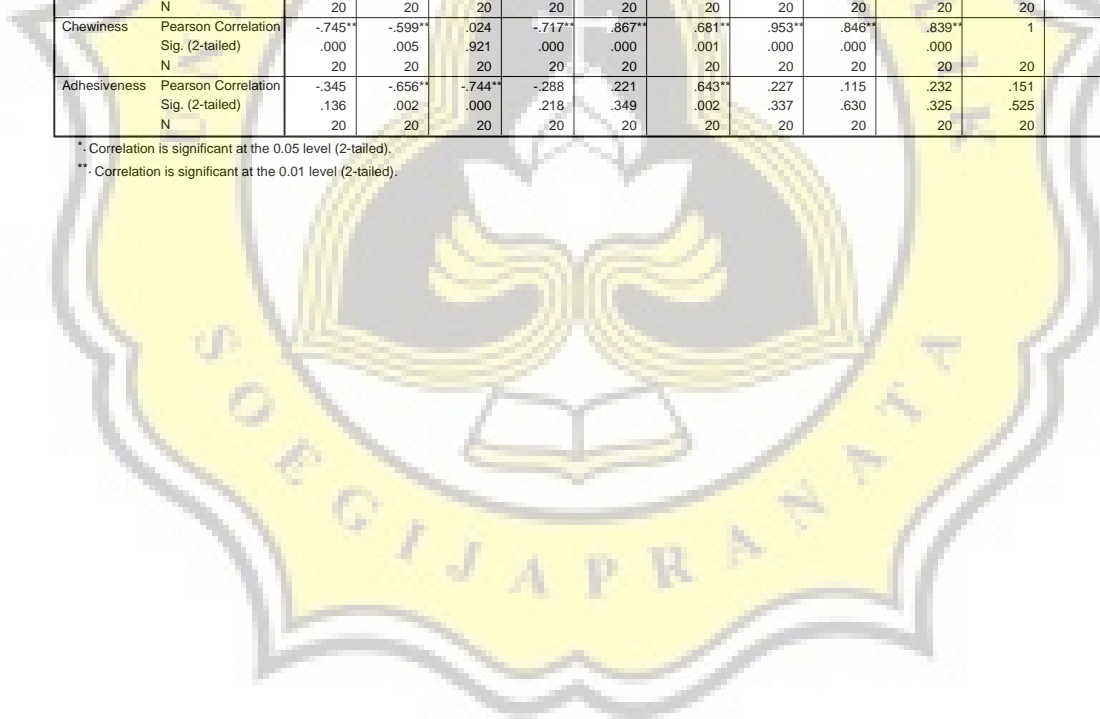
### 7.3.6. Uji Korelasi Antara Sifat Fisik, Kimia dan Sensori Sifat Kimia dan Sifat Fisik

**Correlations**

		Air	Abu	Protein	Lemak	Serat	Karbohidrat	Hardness	Cohesiveness	Springiness	Chewiness	Adhesiveness
Air	Pearson Correlation	1	.524*	.263	.493*	-.611**	-.906**	-.791**	-.462*	-.616**	-.745**	-.345
	Sig. (2-tailed)		.018	.262	.027	.004	.000	.000	.040	.004	.000	.136
	N	20	20	20	20	20	20	20	20	20	20	20
Abu	Pearson Correlation	.524*	1	.447*	.657**	-.671**	-.682**	-.596**	-.612**	-.773**	-.599**	-.656**
	Sig. (2-tailed)	.018		.048	.002	.001	.001	.006	.004	.000	.005	.002
	N	20	20	20	20	20	20	20	20	20	20	20
Protein	Pearson Correlation	.263	.447*	1	-.153	.085	-.583**	.038	.042	-.063	.024	-.744**
	Sig. (2-tailed)	.262	.048		.519	.721	.007	.874	.861	.791	.921	.000
	N	20	20	20	20	20	20	20	20	20	20	20
Lemak	Pearson Correlation	.493*	.657**	-.153	1	-.784**	-.481*	-.779**	-.648**	-.659**	-.717**	-.288
	Sig. (2-tailed)	.027	.002	.519		.000	.032	.000	.002	.002	.000	.218
	N	20	20	20	20	20	20	20	20	20	20	20
Serat	Pearson Correlation	-.611**	-.671**	.085	-.784**	1	.553*	.876**	.689**	.865**	.867**	.221
	Sig. (2-tailed)	.004	.001	.721	.000		.011	.000	.001	.000	.000	.349
	N	20	20	20	20	20	20	20	20	20	20	20
Karbohidrat	Pearson Correlation	-.906**	-.682**	-.583**	-.481*	.553*	1	.705**	.470*	.615**	.681**	.643**
	Sig. (2-tailed)	.000	.001	.007	.032	.011		.001	.036	.004	.001	.002
	N	20	20	20	20	20	20	20	20	20	20	20
Hardness	Pearson Correlation	-.791**	-.596**	.038	-.779**	.876**	.705**	1	.704**	.755**	.953**	.227
	Sig. (2-tailed)	.000	.006	.874	.000	.000	.001		.001	.000	.000	.337
	N	20	20	20	20	20	20	20	20	20	20	20
Cohesiveness	Pearson Correlation	-.462*	-.612**	.042	-.648**	.689**	.470*	.704**	1	.787**	.846**	.115
	Sig. (2-tailed)	.040	.004	.861	.002	.001	.036	.001		.000	.000	.630
	N	20	20	20	20	20	20	20	20	20	20	20
Springiness	Pearson Correlation	-.616**	-.773**	-.063	-.659**	.865**	.615**	.755**	.787**	1	.839**	.232
	Sig. (2-tailed)	.004	.000	.791	.002	.000	.004	.000	.000	.000		.325
	N	20	20	20	20	20	20	20	20	20	20	20
Chewiness	Pearson Correlation	-.745**	-.599**	.024	-.717**	.867**	.681**	.953**	.846**	.839**	1	.151
	Sig. (2-tailed)	.000	.005	.921	.000	.000	.001	.000	.000	.000	.000	
	N	20	20	20	20	20	20	20	20	20	20	20
Adhesiveness	Pearson Correlation	-.345	-.656**	-.744**	-.288	.221	.643**	.227	.115	.232	.151	1
	Sig. (2-tailed)	.136	.002	.000	.218	.349	.002	.337	.630	.325	.525	
	N	20	20	20	20	20	20	20	20	20	20	20

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

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



## Sifat Kimia dan Sifat Sensori

Correlations

		Air	Abu	Protein	Lemak	Serat	KH	Warna	Aroma	Rasa	Tekstur	Overall
Kendall's tau_b Air	Correlation Coefficient	1.000	.305*	.147	.305*	-.411**	-.755**	.284	-.107	-.107	.036	-.059
	Sig. (1-tailed)	.	.030	.182	.030	.006	.000	.053	.272	.272	.420	.368
	N	20	20	20	20	20	20	20	20	20	20	20
Abu	Correlation Coefficient	.305*	1.000	.611**	.221	-.305*	-.470**	-.012	-.142	-.284	.000	-.178
	Sig. (1-tailed)	.030	.	.000	.086	.030	.002	.473	.210	.053	.500	.156
	N	20	20	20	20	20	20	20	20	20	20	20
Protein	Correlation Coefficient	.147	.611**	1.000	-.063	-.021	-.343*	.130	.036	-.047	.178	.166
	Sig. (1-tailed)	.182	.000	.	.349	.448	.017	.230	.420	.394	.156	.173
	N	20	20	20	20	20	20	20	20	20	20	20
Lemak	Correlation Coefficient	.305*	.221	-.063	1.000	-.579**	-.385**	.000	-.036	-.071	-.284	-.284
	Sig. (1-tailed)	.030	.086	.349	.	.000	.009	.500	.420	.343	.053	.053
	N	20	20	20	20	20	20	20	20	20	20	20
Serat	Correlation Coefficient	-.411**	-.305*	-.021	-.579**	1.000	.406**	.000	.095	.178	.118	.296*
	Sig. (1-tailed)	.006	.030	.448	.000	.	.006	.500	.295	.156	.250	.046
	N	20	20	20	20	20	20	20	20	20	20	20
KH	Correlation Coefficient	-.755**	-.470**	-.343*	-.385**	.406**	1.000	-.244	.030	.065	-.036	-.006
	Sig. (1-tailed)	.000	.002	.017	.009	.006	.	.084	.433	.356	.420	.487
	N	20	20	20	20	20	20	20	20	20	20	20
Warna	Correlation Coefficient	.284	-.012	.130	.000	.000	-.244	1.000	.181**	.104	.032	.161*
	Sig. (1-tailed)	.053	.473	.230	.500	.500	.084	.	.009	.087	.339	.017
	N	20	20	20	20	20	20	120	120	120	120	120
Aroma	Correlation Coefficient	-.107	-.142	.036	-.036	.095	.030	.181**	1.000	.219**	.090	.217**
	Sig. (1-tailed)	.272	.210	.420	.420	.295	.433	.009	.	.002	.119	.002
	N	20	20	20	20	20	20	120	120	120	120	120
Rasa	Correlation Coefficient	-.107	-.284	-.047	-.071	.178	.065	.104	.219**	1.000	.072	.359**
	Sig. (1-tailed)	.272	.053	.394	.343	.156	.356	.087	.002	.	.172	.000
	N	20	20	20	20	20	20	120	120	120	120	120
Tekstur	Correlation Coefficient	.036	.000	.178	-.284	.118	-.036	.032	.090	.072	1.000	.370**
	Sig. (1-tailed)	.420	.500	.156	.053	.250	.420	.339	.119	.172	.	.000
	N	20	20	20	20	20	20	120	120	120	120	120
Overall	Correlation Coefficient	-.059	-.178	.166	-.284	.296*	-.006	.161*	.217**	.359**	.370**	1.000
	Sig. (1-tailed)	.368	.156	.173	.053	.046	.487	.017	.002	.000	.000	.
	N	20	20	20	20	20	20	120	120	120	120	120

\* Correlation is significant at the 0.05 level (1-tailed).

\*\* Correlation is significant at the 0.01 level (1-tailed).

## Sifat Fisik dan Sifat Sensori

Correlations

		Hardness	Cohesiveness	Springiness	Chewiness	Adhesiveness	Warna	Aroma	Rasa	Tekstur	Overall
Kendall's tau_b Hardness	Correlation Coefficient	1.000	.547**	.533**	.821**	.215	-.083	.047	.083	.249	.284
	Sig. (1-tailed)	.	.000	.001	.000	.096	.319	.394	.319	.079	.053
	N	20	20	20	20	20	20	20	20	20	20
Cohesiveness	Correlation Coefficient	.547**	1.000	.575**	.726**	-.043	.071	.201	.201	.107	.367**
	Sig. (1-tailed)	.000	.	.000	.000	.397	.343	.126	.126	.272	.018
	N	20	20	20	20	20	20	20	20	20	20
Springiness	Correlation Coefficient	.533**	.575**	1.000	.691**	.113	-.065	.196	.101	.024	.232
	Sig. (1-tailed)	.001	.000	.	.000	.247	.356	.133	.284	.446	.095
	N	20	20	20	20	20	20	20	20	20	20
Chewiness	Correlation Coefficient	.821**	.726**	.691**	1.000	.118	-.059	.118	.154	.190	.344*
	Sig. (1-tailed)	.000	.000	.000	.	.237	.368	.250	.191	.141	.025
	N	20	20	20	20	20	20	20	20	20	20
Adhesiveness	Correlation Coefficient	.215	-.043	.113	.118	1.000	-.103	-.121	.054	-.085	-.109
	Sig. (1-tailed)	.096	.397	.247	.237	.	.283	.250	.381	.318	.272
	N	20	20	20	20	20	20	20	20	20	20
Warna	Correlation Coefficient	-.083	.071	-.065	-.059	-.103	1.000	.181**	.104	.032	.161*
	Sig. (1-tailed)	.319	.343	.356	.368	.283	.	.009	.087	.339	.017
	N	20	20	20	20	20	120	120	120	120	120
Aroma	Correlation Coefficient	.047	.201	.196	.118	-.121	.181**	1.000	.219**	.090	.217**
	Sig. (1-tailed)	.394	.126	.133	.250	.250	.009	.	.002	.119	.002
	N	20	20	20	20	20	120	120	120	120	120
Rasa	Correlation Coefficient	.083	.201	.101	.154	.054	.104	.219**	1.000	.072	.359**
	Sig. (1-tailed)	.319	.126	.284	.191	.381	.087	.002	.	.172	.000
	N	20	20	20	20	20	120	120	120	120	120
Tekstur	Correlation Coefficient	.249	.107	.024	.190	-.085	.032	.090	.072	1.000	.370**
	Sig. (1-tailed)	.079	.272	.446	.141	.318	.339	.119	.172	.	.000
	N	20	20	20	20	20	120	120	120	120	120
Overall	Correlation Coefficient	.284	.367**	.232	.344*	-.109	.161*	.217**	.359**	.370**	1.000
	Sig. (1-tailed)	.053	.018	.095	.025	.272	.017	.002	.000	.000	.
	N	20	20	20	20	20	120	120	120	120	120

\*\* Correlation is significant at the 0.01 level (1-tailed).

\* Correlation is significant at the 0.05 level (1-tailed).