

## LAMPIRAN

### Lampiran 1. SNI Abon

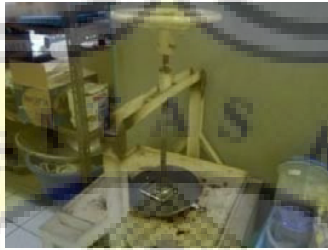
No.	Kriteria Uji	Satuan	Persyaratan
1.	Keadaan		
	1.1. Bentuk	-	Normal
	1.2. Bau	-	Normal
	1.3. Rasa	-	Normal
	1.4. Warna	-	Normal
2.	Air	% b/b	Maks. 7
3.	Abu	% b/b	Maks. 7
4.	Abu tak larut dalam asam	% b/b	Maks. 0,1
5.	Lemak	% b/b	Maks. 30
6.	Protein	% b/b	Min. 15
7.	Serat Kasar	% b/b	Maks. 1,0
8.	Gula jumlah sebagai sakarosa	% b/b	Maks. 30
9.	Pengawet	-	Sesuai SNI.01-0222-87*
10.	Cemaran Logam :		
10.1	Timbal (Pb)	mg/kg	Maks. 2,0
10.2	Tembaga (Cu)	mg/kg	Maks. 20
10.3	Seng (Zn)	mg/kg	Maks. 40,0
10.4	Timah (Sn)	mg/kg	Maks. 40,0
10.5	Raksa (Hg)	mg/kg	Maks. 0,05
11.	Cemaran Arsen (As)	mg/kg	Maks. 1,0
12.	Cemaran Mikroba :		
12.1	Angka lempeng total	koloni/gr	Maks. $5 \times 10^4$
12.2	MPN Coliform	koloni/gr	Maks. 10
12.3	Salmonella	koloni/25g	Negatip
12.4	Staphylococcus aureus	koloni/gr	0

\* atau revisinya

**Lampiran 2. Dokumentasi**



Bahan Baku Abon Nabati



Pengepresan Abon



Pengeringan Abon





#### Lampiran 4. Uji Ranging Hedonik Abon Nabati

##### UJI RANKING HEDONIK

Nama :  
 Jenis Sampel : Abon Nabati  
 Tanggal uji :  
 Atribut : Aroma *overall*

Intruksi :  
 Di hadapan Anda terdapat 4 sampel abon nabati. Rasakan aroma sampel secara berurutan dari kiri ke kanan, rasakan masing-masing. Setelah merasakan aroma semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling anda sukai (=4) hingga sampel yang paling kurang Anda sukai (=1).

Kode sampel	Rangking (jangan ada yang dobel)
.....	.....
.....	.....
.....	.....
.....	.....

Nama :  
 Jenis Sampel : Abon Nabati  
 Tanggal uji :  
 Atribut : Tekstur *overall*

Intruksi :  
 Di hadapan Anda terdapat 4 sampel abon nabati. Rasakan tekstur sampel secara berurutan dari kiri ke kanan dengan menggunakan tangan, rasakan masing-masing. Setelah merasakan semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling anda sukai (=4) hingga sampel yang paling kurang Anda sukai (=1).

Kode sampel	Rangking (jangan ada yang dobel)
.....	.....
.....	.....
.....	.....
.....	.....

## UJI RANKING HEDONIK

Nama :  
Jenis Sampel : Abon nabati  
Atribut : Rasa gurih

Tanggal uji :

Intruksi :

Berkumur-kumurlah dulu sebelum menguji sampel.

Di hadapan Anda terdapat 4 sampel abon nabati. Cicipi sampel secara berurutan dari kiri ke kanan, rasakan masing-masing. Setelah mencicipi semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling anda sukai (=4) hingga sampel yang paling kurang Anda sukai (=1).

Kode sampel                      Rangking (jangan ada yang dobel)

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



## Lampiran 5. Uji Normalitas Komposisi Fisikokimia dan Sensori Abon Nabati pada Berbagai Perlakuan Substitusi

### Penelitian Pendahuluan

#### Analisa Sensori

##### Aroma

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
A	.216	30	.001	.851	30	.001
B	.208	30	.002	.897	30	.007
C	.210	30	.002	.902	30	.009
D	.259	30	.000	.852	30	.001
E	.247	30	.000	.816	30	.000

a. Lilliefors Significance Correction

##### Tekstur

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
A	.212	30	.001	.849	30	.001
B	.342	30	.000	.809	30	.000
C	.232	30	.000	.892	30	.005
D	.268	30	.000	.868	30	.001
E	.266	30	.000	.777	30	.000

a. Lilliefors Significance Correction

##### Rasa

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
A	.229	30	.000	.836	30	.000
B	.283	30	.000	.864	30	.001
C	.190	30	.007	.890	30	.005
D	.284	30	.000	.840	30	.000
E	.205	30	.002	.845	30	.000

a. Lilliefors Significance Correction

## Penelitian Utama

### Karakteristik Fisik (Analisa Warna)

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
L	.129	24	.200*	.974	24	.768
a	.126	24	.200*	.953	24	.307
b	.172	24	.065	.918	24	.054

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

a. Lilliefors Significance Correction

### Karakteristik Kimia

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kdr_air	.147	24	.191	.925	24	.075
kdr_abu	.155	24	.138	.935	24	.127
kdr_lemak	.175	24	.054	.935	24	.123
kdr_protein	.131	24	.200*	.965	24	.544
kdr_kh	.148	24	.184	.937	24	.143
serat_kasar	.156	24	.133	.931	24	.101

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

a. Lilliefors Significance Correction

### Analisa Sensori

#### Aroma

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
A	.289	30	.000	.765	30	.000
B	.200	30	.004	.843	30	.000
C	.212	30	.001	.885	30	.004
D	.236	30	.000	.820	30	.000

a. Lilliefors Significance Correction

**Tekstur****Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
A	.238	30	.000	.790	30	.000
B	.282	30	.000	.853	30	.001
C	.268	30	.000	.856	30	.001
D	.256	30	.000	.768	30	.000

a. Lilliefors Significance Correction

**Rasa****Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
A	.315	30	.000	.757	30	.000
B	.210	30	.002	.863	30	.001
C	.267	30	.000	.851	30	.001
D	.326	30	.000	.758	30	.000

a. Lilliefors Significance Correction

**Lampiran 6. Uji Deskriptif Statistik Komposisi Fisikokimia dan Sensori Abon Nabati pada Berbagai Perlakuan Substitusi****Penelitian Pendahuluan****Analisa Sensori****Aroma****Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
A	30	2.27	1.285	1	5
B	30	2.57	1.251	1	5
C	30	3.27	1.172	1	5
D	30	3.57	1.357	1	5
E	30	3.33	1.626	1	5



**Tekstur****Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
A	30	2.80	1.540	1	5
B	30	2.43	1.194	1	5
C	30	3.20	1.215	1	5
D	30	3.23	1.223	1	5
E	30	3.33	1.729	1	5

**Rasa****Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
A	30	2.70	1.557	1	5
B	30	2.33	1.124	1	5
C	30	3.30	1.317	1	5
D	30	3.37	1.326	1	5
E	30	3.30	1.512	1	5

**Penelitian Utama****Karakteristik Fisik (Analisa Warna)****Descriptives**

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
L	A(50%;50%)	6	33.4600	.80401	.32824	32.6162	34.3038	32.10	34.50
	B(60%;40%)	6	34.0817	.75991	.31023	33.2842	34.8791	32.70	34.85
	C(70%;30%)	6	37.7133	.95999	.39192	36.7059	38.7208	36.96	39.37
	kontrol	6	34.9400	2.03968	.83269	32.7995	37.0805	31.19	36.53
	Total	24	35.0488	2.03188	.41476	34.1908	35.9067	31.19	39.37
a	A(50%;50%)	6	2.2217	.23129	.09443	1.9789	2.4644	1.99	2.66
	B(60%;40%)	6	3.0333	.37898	.15472	2.6356	3.4310	2.29	3.32
	C(70%;30%)	6	3.8633	.22993	.09387	3.6220	4.1046	3.59	4.17
	kontrol	6	3.0050	.16208	.06617	2.8349	3.1751	2.73	3.20
	Total	24	3.0308	.64174	.13100	2.7598	3.3018	1.99	4.17
b	A(50%;50%)	6	1.9083	.28053	.11453	1.6139	2.2027	1.65	2.41
	B(60%;40%)	6	3.1800	.18363	.07497	2.9873	3.3727	2.96	3.38
	C(70%;30%)	6	4.6183	.27888	.11385	4.3257	4.9110	4.18	4.86
	kontrol	6	3.0167	.17592	.07182	2.8321	3.2013	2.69	3.20
	Total	24	3.1808	1.00826	.20581	2.7551	3.6066	1.65	4.86

## Karakteristik Kimia

### Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
kdr_air	A (50:50)	6	14.15533	1.085980	.443349	13.01567	15.29500	12.766	15.333
	B (60:40)	6	14.77750	.603487	.246373	14.14418	15.41082	14.100	15.733
	C (70:30)	6	16.12750	1.246025	.508687	14.81988	17.43512	14.100	17.700
	D (kontrol)	6	18.81633	.394186	.160926	18.40266	19.23001	18.333	19.466
	Total	24	15.96917	2.014151	.411137	15.11867	16.81967	12.766	19.466
kdr_abu	A (50:50)	6	4.33333	.087560	.035746	4.24145	4.42522	4.200	4.450
	B (60:40)	6	4.10833	.120069	.049018	3.98233	4.23434	3.900	4.250
	C (70:30)	6	3.96667	.068313	.027889	3.89498	4.03836	3.850	4.050
	D (kontrol)	6	3.88333	.060553	.024721	3.81979	3.94688	3.800	3.950
	Total	24	4.07292	.192229	.039239	3.99175	4.15409	3.800	4.450
kdr lemak	A (50:50)	6	9.53333	.930949	.380058	8.55636	10.51030	8.000	10.500
	B (60:40)	6	10.13333	.763326	.311627	9.33227	10.93439	9.400	11.200
	C (70:30)	6	11.58333	.696898	.284507	10.85198	12.31468	10.900	12.500
	D (kontrol)	6	14.08333	1.426067	.582189	12.58677	15.57990	11.500	15.900
	Total	24	11.33333	2.018106	.411944	10.48116	12.18550	8.000	15.900
kdr_protein	A (50:50)	6	9.44033	.343075	.140060	9.08030	9.80037	8.930	9.805
	B (60:40)	6	9.45483	.585961	.239218	8.83991	10.06976	8.579	9.980
	C (70:30)	6	9.68833	.409166	.167041	9.25894	10.11773	9.105	10.330
	D (kontrol)	6	10.18433	.301633	.123141	9.86779	10.50088	9.630	10.506
	Total	24	9.69196	.500834	.102232	9.48047	9.90344	8.579	10.506
kdr_kh	A (50:50)	6	62.53767	1.819879	.742963	60.62782	64.44751	60.945	65.412
	B (60:40)	6	61.55317	1.359979	.555209	60.12596	62.98038	59.287	63.000
	C (70:30)	6	58.63417	.926425	.378212	57.66194	59.60639	57.220	59.695
	D (kontrol)	6	53.03267	1.853083	.756518	51.08797	54.97736	50.354	56.012
	Total	24	58.93942	4.042385	.825148	57.23247	60.64637	50.354	65.412
serat_kasar	A (50:50)	6	9.49917	.787509	.321499	8.67273	10.32561	8.718	10.770
	B (60:40)	6	9.73133	.634077	.258861	9.06591	10.39676	9.174	10.770
	C (70:30)	6	9.83050	1.043513	.426012	8.73540	10.92560	8.479	11.276
	D (kontrol)	6	11.25833	.965599	.394204	10.24500	12.27167	10.549	13.129
	Total	24	10.07983	1.076943	.219830	9.62508	10.53459	8.479	13.129

## Analisa Sensori

### Aroma

#### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
A	30	3.20	.997	1	4
B	30	2.27	1.143	1	4
C	30	2.43	.935	1	4
D	30	2.10	1.125	1	4

**Tekstur****Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
A	30	2.23	1.251	1	4
B	30	2.47	.937	1	4
C	30	2.53	1.008	1	4
D	30	2.83	1.262	1	4

**Rasa****Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
A	30	3.20	1.031	1	4
B	30	2.80	1.031	1	4
C	30	2.07	.785	1	4
D	30	1.93	1.143	1	4

**Lampiran 7. Uji Beda Komposisi Fisikimia dan Sensori Abon Nabati pada Berbagai Perlakuan Substitusi****Penelitian Pendahuluan****Analisa Sensori****Aroma****Test Statistics<sup>c</sup>**

	B - A	C - A	D - A	E - A	C - B	D - B	E - B	D - C	E - C	E - D
Z	-.794 <sup>a</sup>	-2.779 <sup>a</sup>	-2.895 <sup>a</sup>	-2.297 <sup>a</sup>	-1.853 <sup>a</sup>	-2.591 <sup>a</sup>	-1.827 <sup>a</sup>	-.720 <sup>a</sup>	-.304 <sup>a</sup>	-.511 <sup>b</sup>
Asymp. Sig. (2-tailed)	.427	.005	.004	.022	.064	.010	.068	.472	.761	.609

a. Based on negative ranks.

b. Based on positive ranks.

c. Wilcoxon Signed Ranks Test

**Tekstur****Test Statistics<sup>c</sup>**

	B - A	C - A	D - A	E - A	C - B	D - B	E - B	D - C	E - C	E - D
Z	-1.026 <sup>a</sup>	-1.132 <sup>b</sup>	-1.218 <sup>b</sup>	-.968 <sup>b</sup>	-2.262 <sup>b</sup>	-2.145 <sup>b</sup>	-1.900 <sup>b</sup>	-.325 <sup>b</sup>	-.315 <sup>b</sup>	-.467 <sup>b</sup>
Asymp. Sig. (2-tailed)	.305	.258	.223	.333	.024	.032	.057	.746	.753	.640

a. Based on positive ranks.

b. Based on negative ranks.

c. Wilcoxon Signed Ranks Test

## Rasa

Test Statistics<sup>c</sup>

	B - A	C - A	D - A	E - A	C - B	D - B	E - B	D - C	E - C	E - D
Z	-1.009 <sup>a</sup>	-1.581 <sup>b</sup>	-1.328 <sup>b</sup>	-1.213 <sup>b</sup>	-2.564 <sup>b</sup>	-2.665 <sup>b</sup>	-2.129 <sup>b</sup>	-.261 <sup>b</sup>	-.115 <sup>b</sup>	-.233 <sup>a</sup>
Asymp. Sig. (2-tailed)	.313	.114	.184	.225	.010	.008	.033	.794	.909	.816

a. Based on positive ranks.

b. Based on negative ranks.

c. Wilcoxon Signed Ranks Test

## Penelitian Utama

### Karakteristik Fisik (Analisa Warna)

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
L	Between Groups	63.427	3	21.142	13.411	.000
	Within Groups	31.529	20	1.576		
	Total	94.956	23			
a	Between Groups	8.091	3	2.697	39.050	.000
	Within Groups	1.381	20	.069		
	Total	9.472	23			
b	Between Groups	22.276	3	7.425	134.308	.000
	Within Groups	1.106	20	.055		
	Total	23.381	23			

L

Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05	
		1	2
A(50%;50%)	6	33.4600	
B(60%;40%)	6	34.0817	
kontrol	6	34.9400	
C(70%;30%)	6		37.7133
Sig.		.066	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

a

Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05		
		1	2	3
A(50%;50%)	6	2.2217		
kontrol	6		3.0050	
B(60%;40%)	6		3.0333	
C(70%;30%)	6			3.8633
Sig.		1.000	.854	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

b

Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05		
		1	2	3
A(50%;50%)	6	1.9083		
kontrol	6		3.0167	
B(60%;40%)	6		3.1800	
C(70%;30%)	6			4.6183
Sig.		1.000	.243	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

### Karakteristik Kimia

#### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kdr_air	Between Groups	77.049	3	25.683	31.595	.000
	Within Groups	16.258	20	.813		
	Total	93.306	23			
kdr_abu	Between Groups	.698	3	.233	30.589	.000
	Within Groups	.152	20	.008		
	Total	.850	23			
kdr_lemak	Between Groups	73.830	3	24.610	24.804	.000
	Within Groups	19.843	20	.992		
	Total	93.673	23			
kdr_protein	Between Groups	2.172	3	.724	4.025	.022
	Within Groups	3.597	20	.180		
	Total	5.769	23			
kdr_kh	Between Groups	328.572	3	109.524	46.341	.000
	Within Groups	47.268	20	2.363		
	Total	375.840	23			
serat_kasar	Between Groups	11.458	3	3.819	5.020	.009
	Within Groups	15.218	20	.761		
	Total	26.676	23			

**kdr\_air**Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05		
		1	2	3
A (50:50)	6	14.15533		
B (60:40)	6	14.77750		
C (70:30)	6		16.12750	
D (kontrol)	6			18.81633
Sig.		.246	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

**kdr\_abu**Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05		
		1	2	3
D (kontrol)	6	3.88333		
C (70:30)	6	3.96667		
B (60:40)	6		4.10833	
A (50:50)	6			4.33333
Sig.		.113	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

**kdr\_lemak**Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05		
		1	2	3
A (50:50)	6	9.53333		
B (60:40)	6	10.13333		
C (70:30)	6		11.58333	
D (kontrol)	6			14.08333
Sig.		.309	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

**kdr\_protein**Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05	
		1	2
A (50:50)	6	9.44033	
B (60:40)	6	9.45483	
C (70:30)	6	9.68833	9.68833
D (kontrol)	6		10.18433
Sig.		.350	.056

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

**kdr\_kh**Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05		
		1	2	3
D (kontrol)	6	53.03267		
C (70:30)	6		58.63417	
B (60:40)	6			61.55317
A (50:50)	6			62.53767
Sig.		1.000	1.000	.281

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

**serat\_kasar**Duncan<sup>a</sup>

perlakuan	N	Subset for alpha = .05	
		1	2
A (50:50)	6	9.49917	
B (60:40)	6	9.73133	
C (70:30)	6	9.83050	
D (kontrol)	6		11.25833
Sig.		.542	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

## Analisa Sensori

### Aroma

Test Statistics<sup>c</sup>

	B - A	C - A	D - A	C - B	D - B	D - C
Z	-2.662 <sup>a</sup>	-2.560 <sup>a</sup>	-2.898 <sup>a</sup>	-.515 <sup>b</sup>	-.430 <sup>a</sup>	-1.223 <sup>a</sup>
Asymp. Sig. (2-tailed)	.008	.010	.004	.606	.667	.221

a. Based on positive ranks.

b. Based on negative ranks.

c. Wilcoxon Signed Ranks Test

### Tekstur

Test Statistics<sup>b</sup>

	B - A	C - A	D - A	C - B	D - B	D - C
Z	-.825 <sup>a</sup>	-.878 <sup>a</sup>	-1.253 <sup>a</sup>	-.225 <sup>a</sup>	-.985 <sup>a</sup>	-1.076 <sup>a</sup>
Asymp. Sig. (2-tailed)	.409	.380	.210	.822	.325	.282

a. Based on negative ranks.

b. Wilcoxon Signed Ranks Test

### Rasa

Test Statistics<sup>b</sup>

	B - A	C - A	D - A	C - B	D - B	D - C
Z	-1.263 <sup>a</sup>	-3.626 <sup>a</sup>	-3.119 <sup>a</sup>	-2.380 <sup>a</sup>	-2.508 <sup>a</sup>	-.382 <sup>a</sup>
Asymp. Sig. (2-tailed)	.207	.000	.002	.017	.012	.703

a. Based on positive ranks.

b. Wilcoxon Signed Ranks Test





