

LAMPIRAN

Lampiran 1. Syarat Mutu Kerupuk Udang (SNI 01-2714-1992)

Jenis Uji	Persyaratan Mutu		
	Mutu 1	Mutu 2	Mutu 3
a. Uji Organoleptik			
- Nilai min. Kapang	7,5 negatif	6,5 negatif	6 negatif
b. Uji Mikrobiologi			
- Jumlah bakteri/(TPC)/gram maks.	5×10^{-4}	5×10^{-4}	5×10^{-4}
- E. coli MPN/gram maks.	3	3	3
- Salmonella*)			
c. Kimia			
- Air, % bobot/bobot, maks	12	12	14
- Abu tak larut dalam asam % bobot/bobot min,	1	1	1
- Protein, bobot/bobot min	8	5	2
- Zat warna	Sesuai persyaratan Departemen kesehatan RI		

*) bila diperlukan (rekomendasi)

Lampiran 2. Lembar Kuesioner Uji Sensoris

UJI RATING HEDONIK

Nama : _____ Tanggal : _____
 Produk : Kerupuk udang
 Atribut : Warna

Instruksi :

Berkumur-kumurlah dulu sebelum menguji sampel.

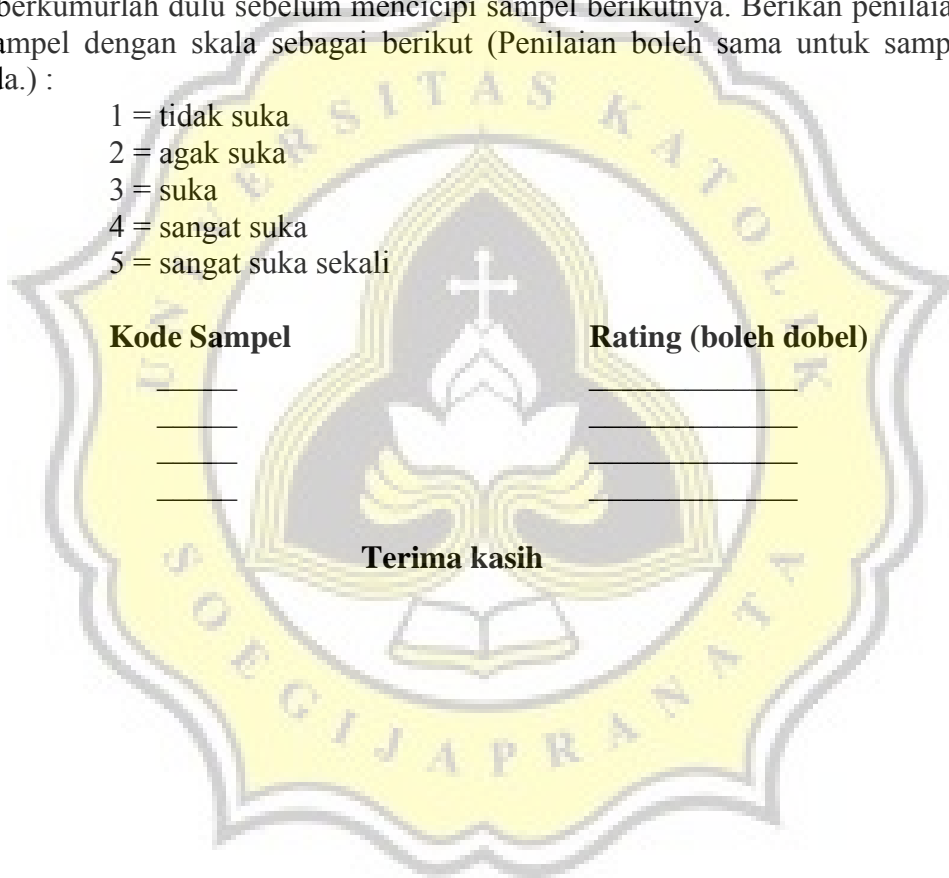
Di hadapan Anda terdapat 4 sampel kerupuk udang. Cicipi sampel secara berturutan dari kiri ke kanan, rasakan masing-masing. Untuk menetralsir rasa sampel sebelumnya, maka berkumurlah dulu sebelum mencicipi sampel berikutnya. Berikan penilaian untuk tiap sampel dengan skala sebagai berikut (Penilaian boleh sama untuk sampel yang berbeda.) :

- 1 = tidak suka
- 2 = agak suka
- 3 = suka
- 4 = sangat suka
- 5 = sangat suka sekali

Kode Sampel

Rating (boleh dobel)

Terima kasih



UJI RATING HEDONIK

Nama : _____ Tanggal : _____
Produk : Kerupuk udang
Atribut : Aroma

Instruksi :

Di hadapan Anda terdapat 4 sampel kerupuk udang. Amati warna sampel secara berturut-turut dari kiri ke kanan. Berikan penilaian untuk tiap sampel dengan skala sebagai berikut (Penilaian boleh sama untuk sampel yang berbeda.) :

- 1 = tidak suka
- 2 = agak suka
- 3 = suka
- 4 = sangat suka
- 5 = sangat suka sekali

Kode Sampel

Rating (boleh dobel)

Terima kasih



UJI RATING HEDONIK

Nama : _____ Tanggal : _____
Produk : Kerupuk udang
Atribut : Kerenyahan

Instruksi :

Di hadapan Anda terdapat 4 sampel kerupuk udang. Amati aroma sampel secara berturut-turut dari kiri ke kanan. Berikan penilaian untuk tiap sampel dengan skala sebagai berikut (Penilaian boleh sama untuk sampel yang berbeda.) :

- 1 = tidak suka
- 2 = agak suka
- 3 = suka
- 4 = sangat suka
- 5 = sangat suka sekali

Kode Sampel

Rating (boleh dobel)

Terima kasih



UJI RATING HEDONIK

Nama : Tanggal :
Produk : Kerupuk udang
Atribut : Rasa

Instruksi :

Di hadapan Anda terdapat 4 sampel kerupuk udang. Gigit tiap sampel secara berturutan dari kiri ke kanan dan amati kerenyahannya. Berikan penilaian untuk tiap sampel dengan skala sebagai berikut (Penilaian boleh sama untuk sampel yang berbeda.) :

- 1 = tidak suka
- 2 = agak suka
- 3 = suka
- 4 = sangat suka
- 5 = sangat suka sekali

Kode Sampel

Rating (boleh dobel)

Terima kasih



UJI RATING HEDONIK

Nama : _____ Tanggal : _____
Produk : Kerupuk udang
Atribut : *Overall*

Instruksi :

Di hadapan Anda terdapat 4 sampel kerupuk udang. Amati *overall* tiap sampel secara berturut-turut dari kiri ke kanan. Berikan penilaian untuk tiap sampel dengan skala sebagai berikut (Penilaian boleh sama untuk sampel yang berbeda.) :

- 1 = tidak suka
- 2 = agak suka
- 3 = suka
- 4 = sangat suka
- 5 = sangat suka sekali

Kode Sampel

Rating (boleh dobel)

Terima kasih



Lampiran 3. SPSS Uji Fisik Persentase Pengembangan Kerupuk

Descriptives

Pengembangan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol_bulat	10	314.7056	46.3261043	14.64960	281.565891	347.845289	228.4375	386.0314
kontrol_kotak	10	107.8593	33.8499631	10.70430	83.644475	132.074085	67.5847	168.9162
kontrol_stik	10	102.0556	28.4581163	8.9992465	81.697930	122.413350	61.0294	153.1792
bit_bulat	10	157.7550	15.8309275	5.0061788	146.430237	169.079763	133.4731	177.6057
bit_kotak	10	155.3550	27.1618621	8.5893350	135.924614	174.785466	110.4756	207.3203
bit_stik	10	143.4178	30.6851766	9.7035049	121.466927	165.368633	102.1053	192.8349
sawi_bulat	10	142.0087	13.7112919	4.3358912	132.200193	151.817127	118.5153	161.8151
sawi_kotak	10	123.8506	25.6948977	8.1254401	105.469597	142.231643	93.5004	170.0508
sawi_stik	10	135.1833	33.7534247	10.67377	111.037585	159.329075	94.5833	187.5413
wortel_bulat	10	199.2922	30.0663958	9.5078292	177.784016	220.800424	160.2188	253.8813
wortel_kotak	10	196.2656	48.8689040	15.45370	161.306922	231.224338	116.2447	272.1386
wortel_stik	10	164.2312	35.3573483	11.18098	138.938087	189.524333	124.0385	237.8378
Total	120	161.8317	62.6448440	5.7186657	150.508137	173.155196	61.0294	386.0314

Tests of Normality

Jenis_bentuk	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Pengembangan kontrol_bulat	.107	10	.200*	.988	10	.994
kontrol_kotak	.196	10	.200*	.920	10	.360
kontrol_stik	.133	10	.200*	.970	10	.894
bit_bulat	.149	10	.200*	.930	10	.448
bit_kotak	.252	10	.071	.917	10	.330
bit_stik	.162	10	.200*	.936	10	.512
sawi_bulat	.189	10	.200*	.941	10	.559
sawi_kotak	.168	10	.200*	.933	10	.474
sawi_stik	.220	10	.184	.884	10	.144
wortel_bulat	.131	10	.200*	.954	10	.719
wortel_kotak	.155	10	.200*	.970	10	.895
wortel_stik	.261	10	.053	.899	10	.212

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

a. Lilliefors Significance Correction

Tests of Between-Subjects Effects

Dependent Variable: Pengembangan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	353946.595 ^a	11	32176.963	30.738	.000
Intercept	3142738.600	1	3142738.600	3002.239	.000
jenis_kerupuk	50072.389	3	16690.796	15.945	.000
bentuk	105724.332	2	52862.166	50.499	.000
jenis_kerupuk * bentuk	198149.874	6	33024.979	31.549	.000
Error	113054.206	108	1046.798		
Total	3609739.401	120			
Corrected Total	467000.800	119			

a. R Squared = .758 (Adjusted R Squared = .733)

Pengembangan

Duncan^{a,b}

jenis_kerupuk	N	Subset		
		1	2	3
sawi	30	133.6809		
bit	30		152.1759	
kontrol	30			174.8735
wortel	30			186.5964
Sig.		1.000	1.000	.163

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 1046.798.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = .05.

Pengembangan

Duncan^{a,b}

bentuk	N	Subset	
		1	2
stik	40	136.2220	
kotak	40	145.8326	
bulat	40		203.4404
Sig.		.187	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 1046.798.

a. Uses Harmonic Mean Sample Size = 40.000.

b. Alpha = .05.

Pengembangan

Duncan^a

Jenis_bentuk	N	Subset for alpha = .05					
		1	2	3	4	5	6
kontrol_stik	10	102.0556					
kontrol_kotak	10	107.8593	107.8593				
sawi_kotak	10	123.8506	123.8506	123.8506			
sawi_stik	10		135.1833	135.1833	135.1833		
sawi_bulat	10			142.0087	142.0087		
bit_stik	10			143.4178	143.4178		
bit_kotak	10			155.3550	155.3550		
bit_bulat	10				157.7550		
wortel_stik	10				164.2312		
wortel_kotak	10					196.2656	
wortel_bulat	10					199.2922	
kontrol_bulat	10						314.7056
Sig.		.159	.076	.053	.081	.835	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.



Lampiran 4. SPSS Uji Fisik Tekstur Adonan Kerupuk

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
					Lower Bound	Upper Bound			
hardness	1	10	5005.139	811.0983622	256.4918	4424.914325	5585.363955	4231.167	6666.991
	2	10	1936.302	198.7865275	62.86182	1794.098255	2078.504885	1710.853	2211.889
	3	10	1948.688	260.4739462	82.36909	1762.355674	2135.019346	1664.559	2404.597
	4	10	1811.605	179.6901458	56.82301	1683.062673	1940.147847	1562.516	2055.121
	Total	40	2675.433	1429.1814061	225.9734	2218.358982	3132.507758	1562.516	6666.991
springiness	1	10	3.434090	.8869615	.2804818	2.799596	4.068584	2.4702	5.2557
	2	10	7.938460	.5658696	.1789437	7.533661	8.343259	7.1696	9.0523
	3	10	7.520590	.7153319	.2262078	7.008872	8.032308	6.1548	8.2780
	4	10	6.235200	1.1469854	.3627086	5.414696	7.055704	4.9159	7.9313
	Total	40	6.282085	1.9632203	.3104124	5.654217	6.909953	2.4702	9.0523
cohesiveness	1	10	1.095680	.0566417	.0179117	1.055161	1.136199	1.0128	1.1849
	2	10	1.373890	.0552208	.0174624	1.334387	1.413393	1.3147	1.4920
	3	10	1.369920	.0968460	.0306254	1.300641	1.439199	1.1864	1.5346
	4	10	1.242520	.0596641	.0188674	1.199839	1.285201	1.1736	1.3217
	Total	40	1.270503	.1332009	.0210609	1.227903	1.313102	1.0128	1.5346

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
hardness	.327	40	.000	.712	40	.000
springiness	.182	40	.002	.885	40	.001
cohesiveness	.122	40	.136	.966	40	.275

a. Lilliefors Significance Correction

hardness

Duncan^a

perlakuan	N	Subset for alpha = .05	
		1	2
wortel	10	1811.605	
bit	10	1936.302	
sawi	10	1948.688	
kontrol	10		5005.139
Sig.		.523	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

springinessDuncan^a

perlakuan	N	Subset for alpha = .05		
		1	2	3
kontrol	10	3.434090		
wortel	10		6.235200	
sawi	10			7.520590
bit	10			7.938460
Sig.		1.000	1.000	.283

Means for groups in homogeneous subsets are displayed.

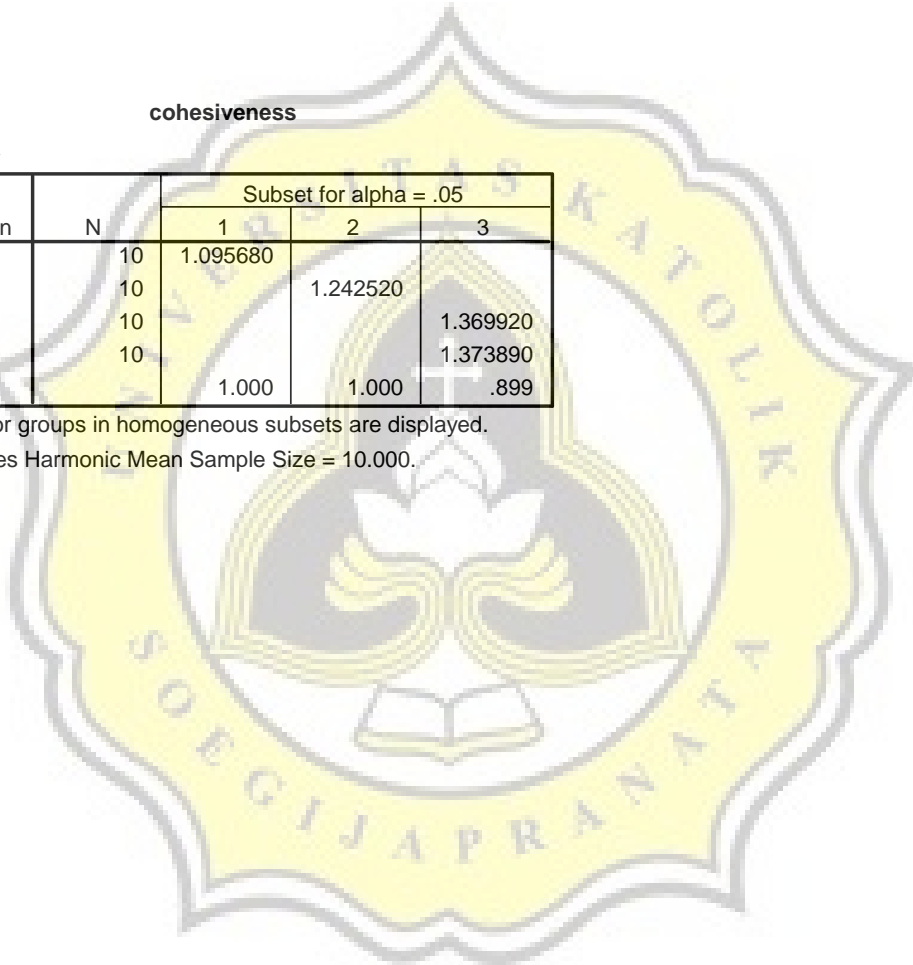
a. Uses Harmonic Mean Sample Size = 10.000.

cohesivenessDuncan^a

perlakuan	N	Subset for alpha = .05		
		1	2	3
kontrol	10	1.095680		
wortel	10		1.242520	
sawi	10			1.369920
bit	10			1.373890
Sig.		1.000	1.000	.899

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.



Lampiran 5. SPSS Uji Fisik Tekstur Kerupuk Setelah Digoreng

Descriptives

break_strength

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol_bulat	10	1258.112	206.0272214	65.15153	1110.729324	1405.495316	981.6755	1566.631
kontrol_kotak	10	1117.703	387.5033015	122.5393	840.500177	1394.906503	639.8741	1670.083
kontrol_stik	10	680.5538	69.8024447	22.07347	630.620089	730.487411	601.3248	812.6299
bit_bulat	10	1099.535	70.7021280	22.35798	1048.958134	1150.112646	975.2510	1242.351
bit_kotak	10	1415.992	280.5090053	88.70474	1215.327466	1616.655574	1054.615	1995.576
bit_stik	10	710.7169	116.5445445	36.85462	627.345905	794.087795	515.2502	924.6391
sawi_bulat	10	1181.696	96.3842969	30.47939	1112.747288	1250.645632	1049.372	1330.685
sawi_kotak	10	1140.491	299.0389798	94.56443	926.571321	1354.410519	759.2613	1685.086
sawi_stik	10	598.5253	118.2879921	37.40595	513.907158	683.143422	418.3195	745.9699
wortel_bulat	10	1075.683	128.7245041	40.70626	983.599037	1167.766963	887.0695	1291.107
wortel_kotak	10	1054.506	144.3298089	45.64109	951.258904	1157.753556	847.8863	1284.349
wortel_stik	10	688.9642	163.4882760	51.69953	572.011763	805.916697	472.5157	979.3953
Total	120	1001.873	316.6153726	28.90290	944.642652	1059.103898	418.3195	1995.576

Tests of Normality

Jenis_bentuk	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
break_strength kontrol_bulat	.149	10	.200*	.943	10	.588
kontrol_kotak	.206	10	.200*	.903	10	.234
kontrol_stik	.178	10	.200*	.926	10	.413
bit_bulat	.231	10	.139	.930	10	.445
bit_kotak	.142	10	.200*	.945	10	.610
bit_stik	.124	10	.200*	.988	10	.994
sawi_bulat	.151	10	.200*	.950	10	.670
sawi_kotak	.130	10	.200*	.951	10	.677
sawi_stik	.144	10	.200*	.927	10	.417
wortel_bulat	.151	10	.200*	.944	10	.601
wortel_kotak	.103	10	.200*	.967	10	.863
wortel_stik	.157	10	.200*	.945	10	.613

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

a. Lilliefors Significance Correction

Tests of Between-Subjects Effects

Dependent Variable: break_strength

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	7684961.629 ^a	11	698632.875	17.778	.000
Intercept	120450007	1	120450007.1	3065.010	.000
jenis_kerupuk	310764.571	3	103588.190	2.636	.053
bentuk	6636892.115	2	3318446.058	84.442	.000
jenis_kerupuk * bentuk	737304.943	6	122884.157	3.127	.007
Error	4244228.380	108	39298.411		
Total	132379197	120			
Corrected Total	11929190.0	119			

a. R Squared = .644 (Adjusted R Squared = .608)

break_strengthDuncan^{a,b}

jenis_kerupuk	N	Subset	
		1	2
wortel	30	939.7178	
sawi	30	973.5709	973.5709
kontrol	30	1018.790	1018.790
bit	30		1075.415
Sig.		.148	.062

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 39298.411.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = .05.

break_strengthDuncan^{a,b}

bentuk	N	Subset	
		1	2
stik	40	669.6900	
bulat	40		1153.757
kotak	40		1182.173
Sig.		1.000	.523

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 39298.411.

a. Uses Harmonic Mean Sample Size = 40.000.

b. Alpha = .05.

break_strengthDuncan^a

Jenis_bentuk	N	Subset for alpha = .05			
		1	2	3	4
sawi_stik	10	598.5253			
kontrol_stik	10	680.5538			
wortel_stik	10	688.9642			
bit_stik	10	710.7169			
wortel_kotak	10		1054.506		
wortel_bulat	10		1075.683	1075.683	
bit_bulat	10		1099.535	1099.535	
kontrol_kotak	10		1117.703	1117.703	
sawi_kotak	10		1140.491	1140.491	
sawi_bulat	10		1181.696	1181.696	
kontrol_bulat	10			1258.112	1258.112
bit_kotak	10				1415.992
Sig.		.255	.217	.074	.078

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

Lampiran 6. SPSS Uji Kimia Kerupuk Mentah

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
air	kontrol	10	10.998620	.2852779	.0902128	10.794544	11.202696	10.6114	11.3737
	bit	10	10.921340	.3463106	.1095130	10.673604	11.169076	10.5062	11.4608
	sawi	10	10.322250	.4196935	.1327187	10.022019	10.622481	9.7484	10.7848
	wortel	10	11.135700	.1189115	.0376031	11.050636	11.220764	10.9575	11.2861
	Total	40	10.844478	.4354889	.0688568	10.705201	10.983754	9.7484	11.4608
abu	kontrol	10	15.909730	6.4012277	2.0242459	11.330568	20.488892	11.1152	28.0687
	bit	10	30.381990	6.4374972	2.0357154	25.776882	34.987098	13.2833	35.2226
	sawi	10	39.851790	18.1866314	5.7511178	26.841858	52.861722	18.5217	75.3496
	wortel	10	15.549950	12.9492150	4.0949013	6.286640	24.813260	8.4269	51.6645
	Total	40	25.423365	15.5541117	2.4593210	20.448919	30.397811	8.4269	75.3496
protein	kontrol	10	12.408240	1.2576878	.3977158	11.508544	13.307936	10.8506	13.8247
	bit	10	12.411590	1.2373703	.3912908	11.526429	13.296751	11.1341	13.7059
	sawi	10	13.646140	1.7875066	.5652592	12.367435	14.924845	10.7798	15.3454
	wortel	10	12.196220	1.3165453	.4163282	11.254420	13.138020	10.6446	13.6362
	Total	40	12.665548	1.4806212	.2341068	12.192022	13.139073	10.6446	15.3454
lemak	kontrol	10	2.952090	.8910989	.2817902	2.314636	3.589544	1.3132	4.0147
	bit	10	3.444740	.6507495	.2057850	2.979222	3.910258	2.3877	4.3459
	sawi	10	3.154680	.7492684	.2369395	2.618686	3.690674	1.6937	4.4336
	wortel	10	3.770870	1.1570493	.3658911	2.943167	4.598573	1.5885	5.2771
	Total	40	3.330595	.9039815	.1429320	3.041488	3.619702	1.3132	5.2771
serat	kontrol	10	10.394060	1.3794941	.4362343	9.407229	11.380891	8.8948	13.1167
	bit	10	12.850110	1.9574768	.6190085	11.449815	14.250405	10.6737	15.6461
	sawi	10	12.320460	2.3261060	.7355793	10.656464	13.984456	9.0818	16.8367
	wortel	10	11.813920	2.1749250	.6877717	10.258072	13.369768	8.7786	16.1094
	Total	40	11.844638	2.1261925	.3361806	11.164648	12.524627	8.7786	16.8367
karbohidrat	kontrol	10	68.968860	1.3973495	.4418807	67.969256	69.968464	66.7393	71.6024
	bit	10	68.089840	1.1499739	.3636537	67.267198	68.912482	66.5475	70.1449
	sawi	10	67.610310	1.8922774	.5983907	66.256656	68.963964	65.1708	72.0196
	wortel	10	68.320600	1.9246243	.6086196	66.943807	69.697393	66.0980	72.0269
	Total	40	68.247403	1.6377359	.2589488	67.723629	68.771176	65.1708	72.0269
antioksidan	kontrol	10	16.825390	2.9547517	.9343745	14.711688	18.939092	13.0426	21.6787
	bit	10	31.786630	1.6521122	.5224438	30.604780	32.968480	28.8070	33.7565
	sawi	10	46.167600	4.8825395	1.5439946	42.674842	49.660358	41.5967	56.8549
	wortel	10	51.707240	4.7508362	1.5023463	48.308697	55.105783	44.5991	59.4740
	Total	40	36.621715	14.1968958	2.2447263	32.081327	41.162103	13.0426	59.4740

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
air	.121	40	.142	.916	40	.006
abu	.137	40	.056	.873	40	.000
protein	.157	40	.015	.905	40	.003
lemak	.099	40	.200*	.977	40	.597
serat	.119	40	.160	.943	40	.043
karbohidrat	.097	40	.200*	.955	40	.116
antioksidan	.137	40	.057	.933	40	.021

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

a. Lilliefors Significance Correction

airDuncan^a

perlakuan	N	Subset for alpha = .05	
		1	2
sawi	10	10.322250	
bit	10		10.921340
kontrol	10		10.998620
wortel	10		11.135700
Sig.		1.000	.156

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

abuDuncan^a

perlakuan	N	Subset for alpha = .05	
		1	2
wortel	10	15.549950	
kontrol	10	15.909730	
bit	10		30.381990
sawi	10		39.851790
Sig.		.947	.087

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

proteinDuncan^a

perlakuan	N	Subset for alpha = .05	
		1	2
wortel	10	12.196220	
kontrol	10	12.408240	12.408240
bit	10	12.411590	12.411590
sawi	10		13.646140
Sig.		.752	.072

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

lemakDuncan^a

perlakuan	N	Subset for alpha = .05
		1
kontrol	10	2.952090
sawi	10	3.154680
bit	10	3.444740
wortel	10	3.770870
Sig.		.064

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

seratDuncan^a

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	10	10.394060	
wortel	10	11.813920	11.813920
sawi	10		12.320460
bit	10		12.850110
Sig.		.120	.281

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

karbohidratDuncan^a

perlakuan	N	Subset for alpha = .05
		1
sawi	10	67.610310
bit	10	68.089840
wortel	10	68.320600
kontrol	10	68.968860
Sig.		.095

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

antioksidanDuncan^a

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
kontrol	10	16.825390			
bit	10		31.786630		
sawi	10			46.167600	
wortel	10				51.707240
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

Lampiran 7. SPSS Uji Kimia Kerupuk Setelah Digoreng

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
air	kontrol	10	4.001700	.6821122	.2157028	3.513746	4.489654	3.2000	4.9313
	bit	10	6.011150	.4856084	.1535628	5.663767	6.358533	5.4147	6.7333
	sawi	10	5.696770	.6309047	.1995096	5.245448	6.148092	4.8535	6.3645
	wortel	10	4.613200	.1081389	.0341965	4.535842	4.690558	4.4220	4.8159
	Total	40	5.080705	.9644743	.1524968	4.772251	5.389159	3.2000	6.7333
abu	kontrol	10	.654356	.0940067	.0297275	.587108	.721604	.5595	.7791
	bit	10	.836413	.0619559	.0195922	.792092	.880733	.7625	.9345
	sawi	10	.878068	.0225489	.0071306	.861938	.894199	.8436	.9059
	wortel	10	.819127	.0892452	.0282218	.755285	.882970	.7033	.9831
	Total	40	.796991	.1109359	.0175405	.761512	.832470	.5595	.9831
protein	kontrol	10	.863186	.0092814	.0029350	.856546	.869825	.8507	.8846
	bit	10	.863656	.0104539	.0033058	.856178	.871134	.8423	.8781
	sawi	10	.884362	.0131248	.0041504	.874973	.893751	.8641	.8996
	wortel	10	.858571	.0110915	.0035075	.850636	.866505	.8429	.8727
	Total	40	.867443	.0146678	.0023192	.862752	.872134	.8423	.8996
lemak	kontrol	10	21.773250	6.0027947	1.8982503	17.479109	26.067391	14.5165	28.9820
	bit	10	20.296600	2.5559055	.8082483	18.468215	22.124985	15.9427	23.4558
	sawi	10	18.331330	3.2569493	1.0299378	16.001449	20.661211	14.3988	22.0254
	wortel	10	20.911610	3.4652965	1.0958230	18.432686	23.390534	16.6406	24.8836
	Total	40	20.328198	4.0850258	.6458993	19.021743	21.634652	14.3988	28.9820
serat	kontrol	10	9.868410	1.2714238	.4020595	8.958888	10.777932	7.7940	11.5145
	bit	10	12.282120	2.6594248	.8409840	10.379682	14.184558	8.9044	18.1932
	sawi	10	11.331330	1.6168783	.5113018	10.174685	12.487975	9.8435	14.3475
	wortel	10	11.802490	2.0000462	.6324701	10.371743	13.233237	9.6821	16.7667
	Total	40	11.321088	2.0902027	.3304901	10.652608	11.989567	7.7940	18.1932
karbohidrat	kontrol	10	49.695990	4.9071601	1.5517803	46.185619	53.206361	44.3479	56.6287
	bit	10	46.263660	2.8620659	.9050647	44.216261	48.311059	40.8229	49.3558
	sawi	10	48.242580	2.8273565	.8940886	46.220011	50.265149	44.0483	52.6286
	wortel	10	47.801940	2.9107388	.9204564	45.719723	49.884157	44.2793	53.3327
	Total	40	48.001043	3.5753255	.5653086	46.857598	49.144487	40.8229	56.6287
antioksidan	kontrol	10	3.136760	.9755846	.3085069	2.438869	3.834651	1.2914	4.6367
	bit	10	5.721180	1.0586715	.3347813	4.963852	6.478508	3.6098	7.4063
	sawi	10	9.097550	1.5081990	.4769344	8.018649	10.176451	6.7216	12.4786
	wortel	10	11.170050	1.3857376	.4382087	10.178753	12.161347	9.6157	13.6144
	Total	40	7.281385	3.3463743	.5291082	6.211163	8.351607	1.2914	13.6144

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
air	.119	40	.155	.940	40	.033
abu	.125	40	.119	.923	40	.009
protein	.135	40	.064	.953	40	.098
lemak	.111	40	.200*	.954	40	.101
serat	.123	40	.133	.912	40	.004
karbohidrat	.117	40	.181	.967	40	.284
antioksidan	.106	40	.200*	.965	40	.240

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

a. Lilliefors Significance Correction

airDuncan^a

perlakuan	N	Subset for alpha = .05		
		1	2	3
kontrol	10	4.001700		
wortel	10		4.613200	
sawi	10			5.696770
bit	10			6.011150
Sig.		1.000	1.000	.191

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

abuDuncan^a

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	10	.654356	
wortel	10		.819127
bit	10		.836413
sawi	10		.878068
Sig.		1.000	.094

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

proteinDuncan^a

perlakuan	N	Subset for alpha = .05	
		1	2
wortel	10	.858571	
kontrol	10	.863186	
bit	10	.863656	
sawi	10		.884362
Sig.		.341	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

lemakDuncan^a

perlakuan	N	Subset for alpha = .05
		1
sawi	10	18.331330
bit	10	20.296600
wortel	10	20.911610
kontrol	10	21.773250
Sig.		.089

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

seratDuncan^a

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	10	9.868410	
sawi	10	11.331330	11.331330
wortel	10		11.802490
bit	10		12.282120
Sig.		.103	.313

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

karbohidratDuncan^a

perlakuan	N	Subset for alpha = .05
		1
bit	10	46.263660
wortel	10	47.801940
sawi	10	48.242580
kontrol	10	49.695990
Sig.		.050

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

antioksidanDuncan^a

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
kontrol	10	3.136760			
bit	10		5.721180		
sawi	10			9.097550	
wortel	10				11.170050
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

Lampiran 8. SPSS Uji Sensoris

Atribut : Warna

Test Statistics^{a,b}

	Skala
Chi-Square	109.984
df	3
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Jenis_Kerupuk

Kontrol vs Bit

Test Statistics^a

	Skala
Mann-Whitney U	77.000
Wilcoxon W	1352.000
Z	-8.385
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Kontrol vs Sawi

Test Statistics^a

	Skala
Mann-Whitney U	242.000
Wilcoxon W	1517.000
Z	-7.103
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Kontrol vs Wortel

Test Statistics^a

	Skala
Mann-Whitney U	326.000
Wilcoxon W	1601.000
Z	-6.556
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Bit vs Sawi

Test Statistics^a

	Skala
Mann-Whitney U	720.000
Wilcoxon W	1995.000
Z	-4.006
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Bit vs Wortel

Test Statistics^a

	Skala
Mann-Whitney U	327.000
Wilcoxon W	1602.000
Z	-6.702
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Sawi vs Wortel

Test Statistics^a

	Skala
Mann-Whitney U	846.000
Wilcoxon W	2121.000
Z	-2.899
Asymp. Sig. (2-tailed)	.004

a. Grouping Variable: Jenis_Kerupuk

Atribut : Aroma

Test Statistics^{a,b}

	Skala
Chi-Square	54.043
df	3
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Jenis_kerupuk

Kontrol vs Bit

Test Statistics^a

	Skala
Mann-Whitney U	401.000
Wilcoxon W	1676.000
Z	-6.018
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_kerupuk

Kontrol vs Sawi

Test Statistics^a

	Skala
Mann-Whitney U	348.500
Wilcoxon W	1623.500
Z	-6.374
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_kerupuk

Kontrol vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	573.500
Wilcoxon W	1848.500
Z	-4.810
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_kerupuk

Bit vs Sawi**Test Statistics^a**

	Skala
Mann-Whitney U	1126.500
Wilcoxon W	2401.500
Z	-.888
Asymp. Sig. (2-tailed)	.375

a. Grouping Variable: Jenis_kerupuk

Bit vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	1050.500
Wilcoxon W	2325.500
Z	-1.438
Asymp. Sig. (2-tailed)	.151

a. Grouping Variable: Jenis_kerupuk

Sawi vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	941.500
Wilcoxon W	2216.500
Z	-2.204
Asymp. Sig. (2-tailed)	.028

a. Grouping Variable: Jenis_kerupuk

Atribut : Kerenyahan**Test Statistics^{a,b}**

	Skala
Chi-Square	18.065
df	3
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Jenis_Kerupuk

Kontrol vs Bit**Test Statistics^a**

	Skala
Mann-Whitney U	797.500
Wilcoxon W	2072.500
Z	-3.235
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Jenis_Kerupuk

Kontrol vs Sawi**Test Statistics^a**

	Skala
Mann-Whitney U	777.000
Wilcoxon W	2052.000
Z	-3.359
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Jenis_Kerupuk

Kontrol vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	731.000
Wilcoxon W	2006.000
Z	-3.698
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Bit vs Sawi**Test Statistics^a**

	Skala
Mann-Whitney U	1187.000
Wilcoxon W	2462.000
Z	-.452
Asymp. Sig. (2-tailed)	.651

a. Grouping Variable: Jenis_Kerupuk

Bit vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	1168.500
Wilcoxon W	2443.500
Z	-.586
Asymp. Sig. (2-tailed)	.558

a. Grouping Variable: Jenis_Kerupuk

Sawi vs Wortel

Test Statistics^a

	Skala
Mann-Whitney U	1239.000
Wilcoxon W	2514.000
Z	-.079
Asymp. Sig. (2-tailed)	.937

a. Grouping Variable: Jenis_Kerupuk

Atribut : Rasa

Test Statistics^{a,b}

	Skala
Chi-Square	22.632
df	3
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Jenis_kerupuk

Kontrol vs Bit

Test Statistics^a

	Skala
Mann-Whitney U	649.000
Wilcoxon W	1924.000
Z	-4.276
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_kerupuk

Kontrol vs Sawi

Test Statistics^a

	Skala
Mann-Whitney U	752.000
Wilcoxon W	2027.000
Z	-3.561
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_kerupuk

Kontrol vs Wortel

Test Statistics^a

	Skala
Mann-Whitney U	758.000
Wilcoxon W	2033.000
Z	-3.522
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_kerupuk

Bit vs Sawi**Test Statistics^a**

	Skala
Mann-Whitney U	1114.000
Wilcoxon W	2389.000
Z	-.973
Asymp. Sig. (2-tailed)	.331

a. Grouping Variable: Jenis_kerupuk

Bit vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	1122.500
Wilcoxon W	2397.500
Z	-.910
Asymp. Sig. (2-tailed)	.363

a. Grouping Variable: Jenis_kerupuk

Sawi vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	1247.000
Wilcoxon W	2522.000
Z	-.022
Asymp. Sig. (2-tailed)	.983

a. Grouping Variable: Jenis_kerupuk

Atribut : Overall**Test Statistics^{a,b}**

	Skala
Chi-Square	64.270
df	3
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Jenis_Kerupuk

Kontrol vs Bit**Test Statistics^a**

	Skala
Mann-Whitney U	260.000
Wilcoxon W	1535.000
Z	-7.008
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Kontrol vs Sawi**Test Statistics^a**

	Skala
Mann-Whitney U	469.000
Wilcoxon W	1744.000
Z	-5.550
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Kontrol vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	492.500
Wilcoxon W	1767.500
Z	-5.492
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Bit vs Sawi**Test Statistics^a**

	Skala
Mann-Whitney U	944.000
Wilcoxon W	2219.000
Z	-2.234
Asymp. Sig. (2-tailed)	.025

a. Grouping Variable: Jenis_Kerupuk

Bit vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	755.500
Wilcoxon W	2030.500
Z	-3.615
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Jenis_Kerupuk

Sawi vs Wortel**Test Statistics^a**

	Skala
Mann-Whitney U	1095.000
Wilcoxon W	2370.000
Z	-1.135
Asymp. Sig. (2-tailed)	.256

a. Grouping Variable: Jenis_Kerupuk

Lampiran 9. SPSS Uji Korelasi

Correlations

		Kdr_serat	Break_strength	Pengembangan
Kdr_serat	Pearson Correlation	1	-.064	-.421**
	Sig. (2-tailed)		.693	.007
	N	40	40	40
Break_strength	Pearson Correlation	-.064	1	.333*
	Sig. (2-tailed)	.693		.036
	N	40	40	40
Pengembangan	Pearson Correlation	-.421**	.333*	1
	Sig. (2-tailed)	.007	.036	
	N	40	40	40

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

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

