

7. LAMPIRAN

Scoresheet Uji Sensori Ranking Hedonik

UJI RANKING HEDONIK

Nama : _____ Tanggal : _____
Produk : *Puff Pastry* Labu Kuning
Atribut : Warna

Instruksi

Di hadapan anda terdapat 4 sampel *puff pastry*. Lihat dan amati warna sampel secara berurutan dari kiri ke kanan. Setelah melihat dan mengamati semua sampel, Anda boleh mengulang sesering yang anda perlukan. Urutkan sampel dari yang memiliki warna yang paling anda sukai (= 4) hingga sampel yang warnanya paling kurang anda sukai (= 1).

Kode Sampel	Ranking (jangan ada yang dobel)
_____	_____
_____	_____
_____	_____
_____	_____

TERIMA KASIH

UJI RANKING HEDONIK

Nama : _____ Tanggal : _____
Produk : *Puff Pastry* Labu Kuning
Atribut : Aroma

Instruksi

Di hadapan anda terdapat 4 sampel *puff pastry*. Cium aroma sampel secara berurutan dari kiri ke kanan. Anda boleh mengulang sesering yang anda perlukan. Urutkan sampel dari yang memiliki aroma yang paling anda sukai (= 4) hingga sampel yang aromanya paling kurang anda sukai (= 1).

Kode Sampel	Ranking (jangan ada yang dobel)
_____	_____
_____	_____
_____	_____
_____	_____

TERIMA KASIH

UJI RANKING HEDONIK

Nama : _____ Tanggal : _____
 Produk : *Puff Pastry* Labu Kuning
 Atribut : Rasa

Instruksi

Di hadapan anda terdapat 4 sampel *puff pastry*. Berkumurlah dahulu sebelum mencicipi sampel secara berurutan dari kiri ke kanan. Anda boleh mengulang sesering yang anda perlukan. Urutkan sampel dari yang memiliki rasa yang paling anda sukai (= 4) hingga sampel yang rasanya paling kurang anda sukai (= 1).

Kode Sampel _____ Ranking (jangan ada yang dobel) _____

_____	_____
_____	_____
_____	_____
_____	_____

TERIMA KASIH

UJI RANKING HEDONIK

Nama : _____ Tanggal : _____
 Produk : *Puff Pastry* Labu Kuning
 Atribut : *Overall*

Instruksi

Di hadapan anda terdapat 4 sampel *puff pastry*. Urutkan sampel dari yang memiliki tekstur (krenyahan), tekstur (kekerasan), warna, aroma, dan rasa yang paling anda sukai (= 4) hingga sampel yang paling kurang anda sukai (= 1).

Kode Sampel _____ Ranking (jangan ada yang dobel) _____

_____	_____
_____	_____
_____	_____
_____	_____

TERIMA KASIH

UJI RANKING HEDONIK

Nama :
Produk : *Puff Pastry* Labu Kuning
Atribut : Tekstur (kekerasan)

Tanggal :

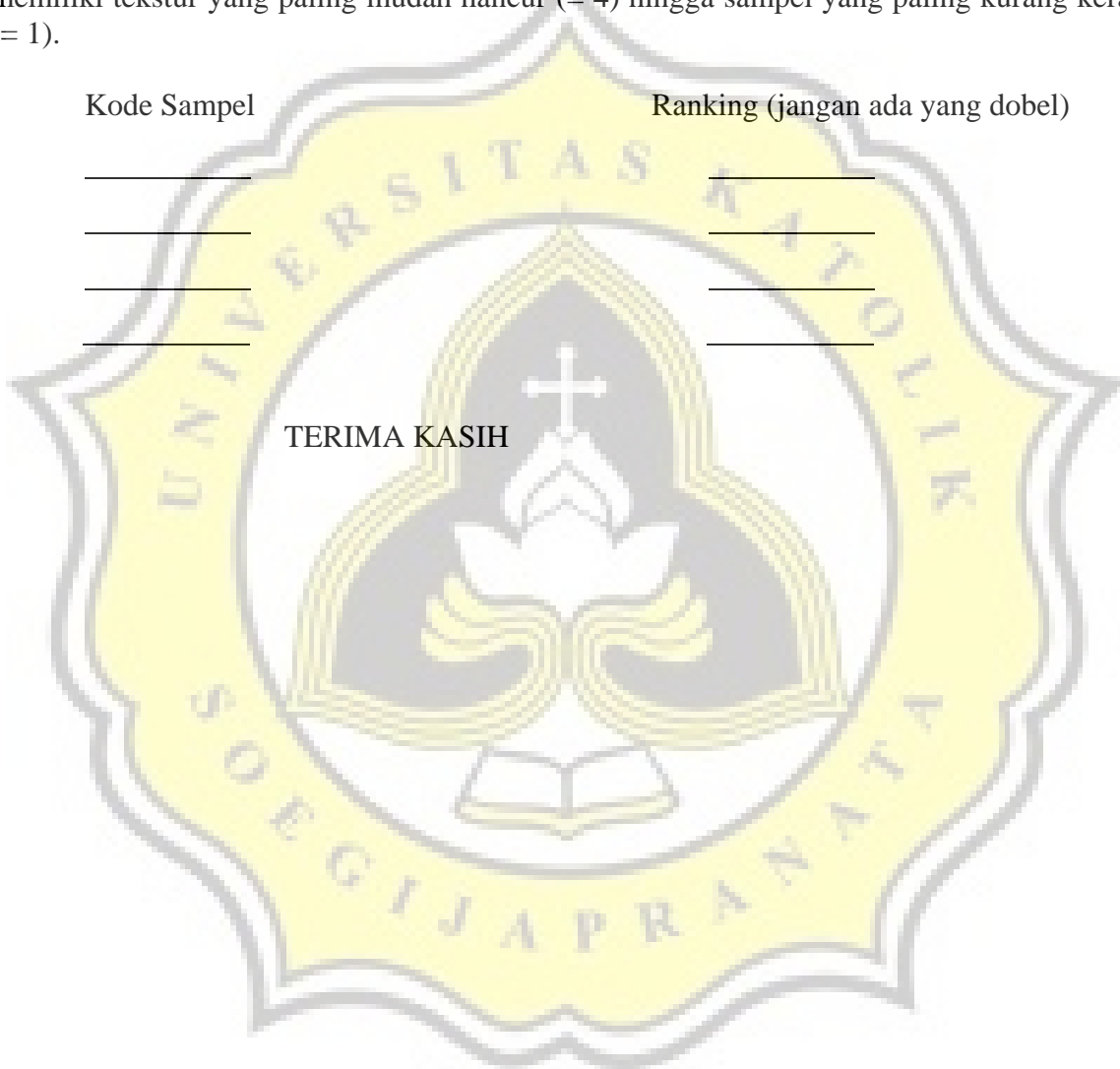
Instruksi

Di hadapan anda terdapat 4 sampel *puff pastry*. Gigit sampel secara berurutan dari kiri ke kanan. Anda boleh mengulang sesering yang anda perlukan. Urutkan sampel dari yang memiliki tekstur yang paling mudah hancur (= 4) hingga sampel yang paling kurang keras (= 1).

Kode Sampel

Ranking (jangan ada yang dobel)

TERIMA KASIH



Worksheet Uji Sensori Ranking Hedonik

Tanggal uji : 5 Maret 2014

Jenis sampel : *Puff Pastry* berbasis tepung Labu Kuning

Identifikasi sampel

Kode

<i>Puff Pastry</i> Non Labu Kuning	A
<i>Puff Pastry</i> + Labu Kuning (10%)	B
<i>Puff Pastry</i> + Labu Kuning (20%)	C
<i>Puff Pastry</i> + Labu Kuning (30%)	D

Kode kombinasi urutan penyajian :

ABCD = 1

BCDA = 2

CDAB = 3

DABC = 4

Booth	Panelis	Kode Sampel ^{Urutan Penyajian}			
I	#1,5,9,17,25,29	325	553	932	797
II	#2,6,10,18,26,30	792	633	461	577
III	#3,7,11,19,27	688	746	122	595
IV	#4,8,12,20,28	991	222	676	560

Rekap kode sampel:

Sampel A	325	577	122	222
Sampel B	553	792	595	676
Sampel C	932	633	688	560
Sampel D	797	461	746	991

Analisa Data Fisik dan Kimia

Tests of Normality

sampel		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
antioksidan	control	.166	10	.200 [*]	.969	10	.885
	puff pastry 10%	.213	10	.200 [*]	.906	10	.256
	puff pastry 20%	.217	10	.200 [*]	.951	10	.682
	puff pastry 30%	.171	10	.200 [*]	.887	10	.158
	TLK	.173	5	.200 [*]	.989	5	.978

a. Lilliefors Significance Correction

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

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
antioksidan	Based on Mean	2.808	4	40	.100
	Based on Median	2.647	4	40	.074
	Based on Median and with adjusted df	2.647	4	28.589	.054
	Based on trimmed mean	2.703	4	40	.120

Tests of Normality

sampel		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	Df	Sig.
betakaroten	control	.148	10	.200 [*]	.948	10	.643
	puff pastry 10%	.253	10	.069	.855	10	.067
	puff pastry 20%	.211	10	.200 [*]	.927	10	.420
	puff pastry 30%	.204	10	.200 [*]	.901	10	.226
	TLK	.253	5	.200 [*]	.853	5	.205

a. Lilliefors Significance Correction

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

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
betakaroten	Based on Mean	1.290	4	40	.290
	Based on Median	.660	4	40	.624
	Based on Median and with adjusted df	.660	4	28.349	.625
	Based on trimmed mean	1.170	4	40	.338

Tests of Normality

sampel		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	Df	Sig.
BakingLoss	control	.152	10	.200*	.965	10	.843
	puff pastry 10%	.170	10	.200*	.913	10	.300
	puff pastry 20%	.155	10	.200*	.938	10	.534
	puff pastry 30%	.292	10	.016	.881	10	.132

a. Lilliefors Significance Correction

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

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
BakingLoss	Based on Mean	1.805	3	36	.164
	Based on Median	1.525	3	36	.225
	Based on Median and with adjusted df	1.525	3	30.437	.228
	Based on trimmed mean	1.901	3	36	.147

Tests of Normality

sampel		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
PengembanganVolume	control	.122	10	.200*	.965	10	.837
	puff pastry 10%	.221	10	.183	.846	10	.052
	puff pastry 20%	.259	10	.057	.841	10	.054
	puff pastry 30%	.255	10	.063	.862	10	.081

a. Lilliefors Significance Correction

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

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
PengembanganVolume	Based on Mean	2.794	3	36	.054
	Based on Median	2.468	3	36	.078
	Based on Median and with adjusted df	2.468	3	20.955	.090
	Based on trimmed mean	2.792	3	36	.054

Tests of Normality

sampel		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hardness	control	.193	10	.200*	.949	10	.661
	puff pastry 10%	.238	10	.113	.876	10	.118
	puff pastry 20%	.127	10	.200*	.943	10	.592
	puff pastry 30%	.196	10	.200*	.926	10	.407

a. Lilliefors Significance Correction

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

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
hardness	Based on Mean	2.080	3	36	.140
	Based on Median	2.014	3	36	.129
	Based on Median and with adjusted df	2.014	3	25.559	.137
	Based on trimmed mean	2.095	3	36	.130

Tests of Normality

sampel		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
warnaL	control	.181	10	.200 [*]	.928	10	.426
	puff pastry 10%	.132	10	.200 [*]	.956	10	.745
	puff pastry 20%	.214	10	.200 [*]	.922	10	.372
	puff pastry 30%	.145	10	.200 [*]	.951	10	.676
A	control	.153	10	.200 [*]	.961	10	.794
	puff pastry 10%	.166	10	.200 [*]	.949	10	.660
	puff pastry 20%	.240	10	.108	.847	10	.054
	puff pastry 30%	.268	10	.040	.851	10	.059
B	control	.219	10	.192	.864	10	.085
	puff pastry 10%	.216	10	.200 [*]	.911	10	.288
	puff pastry 20%	.154	10	.200 [*]	.938	10	.536
	puff pastry 30%	.158	10	.200 [*]	.932	10	.464

a. Lilliefors Significance Correction

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

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
warnaL	Based on Mean	.035	3	36	.991
	Based on Median	.017	3	36	.997
	Based on Median and with adjusted df	.017	3	31.693	.997
	Based on trimmed mean	.032	3	36	.992
A	Based on Mean	2.921	3	36	.100
	Based on Median	1.586	3	36	.230
	Based on Median and with adjusted df	1.586	3	26.915	.270
	Based on trimmed mean	2.752	3	36	.100
B	Based on Mean	.958	3	36	.423
	Based on Median	.620	3	36	.607
	Based on Median and with adjusted df	.620	3	34.871	.607
	Based on trimmed mean	.967	3	36	.419

PengembanganVolume

Duncan

sampel	N	Subset for alpha = 0.05			
		1	2	3	4
puff pastry 30%	10	3.49050E1			
puff pastry 20%	10		7.65735E1		
puff pastry 10%	10			1.52557E2	
control	10				3.51732E2
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

BakingLoss

Duncan

sampel	N	Subset for alpha = 0.05
		1
control	10	81.070998
puff pastry 10%	10	81.728991
puff pastry 20%	10	83.238012
puff pastry 30%	10	84.532733
Sig.		.115

Means for groups in homogeneous subsets are displayed.

hardness

Duncan

sampel	N	Subset for alpha = 0.05			
		1	2	3	4
control	10	7.7381E2			
puff pastry 10%	10		1.4576E3		
puff pastry 20%	10			3.6548E3	
puff pastry 30%	10				6.6683E3
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

warnaL

Duncan

sampel	N	Subset for alpha = 0.05		
		1	2	3
puff pastry 30%	10	55.1000		
puff pastry 20%	10		60.6280	
puff pastry 10%	10			64.6010
control	10			64.6340
Sig.		1.000	1.000	.982

Means for groups in homogeneous subsets are displayed.

A

Duncan

sampel	N	Subset for alpha = 0.05
		1
control	10	7.4810
puff pastry 20%	10	7.4970
puff pastry 10%	10	8.2560
puff pastry 30%	10	8.7470
Sig.		.220

Means for groups in homogeneous subsets are displayed.

b

Duncan

sampel	N	Subset for alpha = 0.05		
		1	2	3
control	10	25.6490		
puff pastry 30%	10	26.5030		
puff pastry 20%	10		29.7440	
puff pastry 10%	10			32.3330
Sig.		.428	1.000	1.000

Means for groups in homogeneous subsets are displayed.

antioksidan

Duncan

sampel	N	Subset for alpha = 0.05			
		1	2	3	4
control	10	3.214826E 1			
puff pastry 10%	10		3.510964E 1		
puff pastry 20%	10			4.206482E 1	
puff pastry 30%	10				5.685232E 1
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

betakaroten

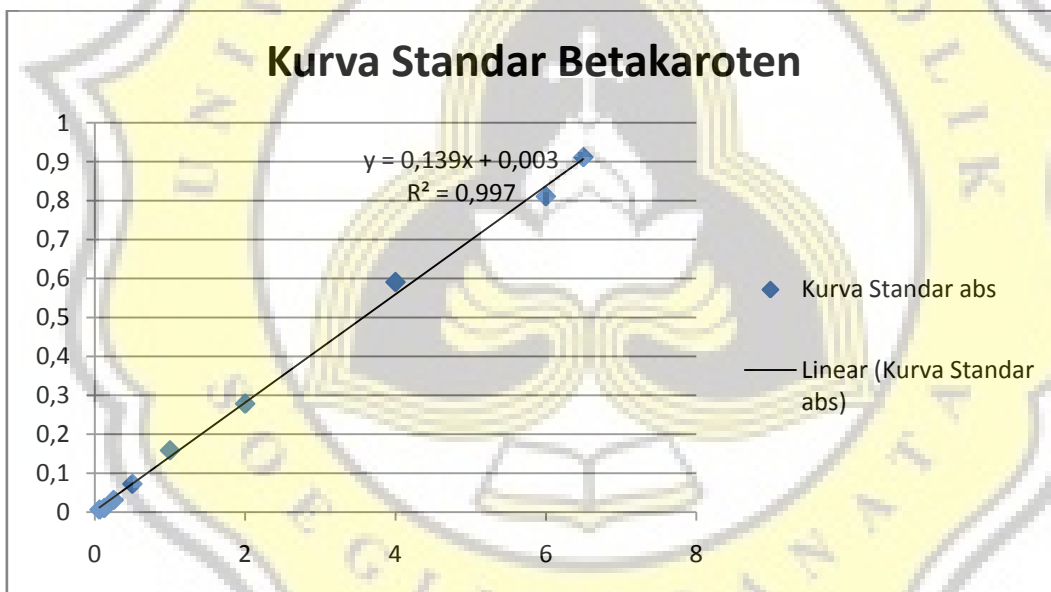
Duncan

sampel	N	Subset for alpha = 0.05			
		1	2	3	4
control	10	1.69329			
puff pastry 10%	10		2.42014		
puff pastry 20%	10			4.16763	
puff pastry 30%	10				6.70624
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Kurva Standar Beta Karoten

ppm	abs
0.0625	0.0063
0.125	0.0104
0.25	0.031
0.5	0.0724
1	0.1586
2	0.2784
4	0.5909
6	0.8109
6.5	0.9116



Analisa Data Sensori

Ranks			
	Perlakuan	N	Mean Rank
Warna	1	30	75.50
	2	30	76.50
	3	30	58.50
	4	30	31.50
	Total	120	
Aroma	1	30	68.50
	2	30	72.50
	3	30	57.50
	4	30	43.50
	Total	120	
Rasa	1	30	64.50
	2	30	68.50
	3	30	56.50
	4	30	52.50
	Total	120	
Tekstur	1	30	72.50
	2	30	68.50
	3	30	55.50
	4	30	45.50
	Total	120	
Overall	1	30	68.50
	2	30	71.50
	3	30	57.50
	4	30	44.50
	Total	120	

Test Statistics ^{a,b}					
	Warna	Aroma	Rasa	Tekstur	Overall
Chi-Square	35.065	13.381	4.231	12.112	11.900
Df	3	3	3	3	3
Asymp. Sig.	.000	.004	.238	.007	.008

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Warna 1	30	32.00	960.00
Warna 2	30	29.00	870.00
Total	60		
Aroma 1	30	30.27	908.00
Aroma 2	30	30.73	922.00
Total	60		
Rasa 1	30	30.43	913.00
Rasa 2	30	30.57	917.00
Total	60		
Tekstur 1	30	32.48	974.50
Tekstur 2	30	28.52	855.50
Total	60		
Overall 1	30	30.37	911.00
Overall 2	30	30.63	919.00
Total	60		

Test Statistics^a

	Warna	Aroma	Rasa	Tekstur	Overall
Mann-Whitney U	405.000	443.000	448.000	390.500	446.000
Wilcoxon W	870.000	908.000	913.000	855.500	911.000
Z	-.705	-.108	-.031	-.922	-.062
Asymp. Sig. (2-tailed)	.481	.914	.975	.357	.951

a. Grouping Variable: Perlakuan

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Warna 1	30	35.10	1053.00
Warna 3	30	25.90	777.00
Total	60		
Aroma 1	30	33.17	995.00
Aroma 3	30	27.83	835.00
Total	60		
Rasa 1	30	32.58	977.50
Rasa 3	30	28.42	852.50
Total	60		
Tekstur 1	30	34.53	1036.00
Tekstur 3	30	26.47	794.00
Total	60		
Overall 1	30	33.50	1005.00
Overall 3	30	27.50	825.00
Total	60		

Test Statistics^a

	Warna	Aroma	Rasa	Tekstur	Overall
Mann-Whitney U	312.000	370.000	387.500	329.000	360.000
Wilcoxon W	777.000	835.000	852.500	794.000	825.000
Z	-2.127	-1.228	-.957	-1.865	-1.376
Asymp. Sig. (2-tailed)	.033	.219	.338	.062	.169

a. Grouping Variable: Perlakuan

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
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Warna	1	30	39.40	1182.00
	4	30	21.60	648.00
	Total	60		
Aroma	1	30	36.07	1082.00
	4	30	24.93	748.00
	Total	60		
Rasa	1	30	32.48	974.50
	4	30	28.52	855.50
	Total	60		
Tekstur	1	30	36.48	1094.50
	4	30	24.52	735.50
	Total	60		
Overall	1	30	35.63	1069.00
	4	30	25.37	761.00
	Total	60		

Test Statistics^a

	Warna	Aroma	Rasa	Tekstur	Overall
Mann-Whitney U	183.000	283.000	390.500	270.500	296.000
Wilcoxon W	648.000	748.000	855.500	735.500	761.000
Z	-4.231	-2.575	-.925	-2.767	-2.372
Asymp. Sig. (2-tailed)	.000	.010	.355	.006	.018

a. Grouping Variable: Perlakuan

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Warna 2	30	36.65	1099.50
Warna 3	30	24.35	730.50
Total	60		
Aroma 2	30	35.07	1052.00
Aroma 3	30	25.93	778.00
Total	60		
Rasa 2	30	33.92	1017.50
Rasa 3	30	27.08	812.50
Total	60		
Tekstur 2	30	34.60	1038.00
Tekstur 3	30	26.40	792.00
Total	60		
Overall 2	30	34.47	1034.00
Overall 3	30	26.53	796.00
Total	60		

Test Statistics^a

	Warna	Aroma	Rasa	Tekstur	Overall
Mann-Whitney U	265.500	313.000	347.500	327.000	331.000
Wilcoxon W	730.500	778.000	812.500	792.000	796.000
Z	-2.907	-2.113	-1.602	-1.896	-1.833
Asymp. Sig. (2-tailed)	.004	.035	.109	.058	.067

a. Grouping Variable: Perlakuan

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	2	30	41.85	1255.50
	4	30	19.15	574.50
	Total	60		
Aroma	2	30	37.70	1131.00
	4	30	23.30	699.00
	Total	60		
Rasa	2	30	35.02	1050.50
	4	30	25.98	779.50
	Total	60		
Tekstur	2	30	36.38	1091.50
	4	30	24.62	738.50
	Total	60		
Overall	2	30	37.40	1122.00
	4	30	23.60	708.00
	Total	60		

Test Statistics^a

	Warna	Aroma	Rasa	Tekstur	Overall
Mann-Whitney U	109.500	234.000	314.500	273.500	243.000
Wilcoxon W	574.500	699.000	779.500	738.500	708.000
Z	-5.250	-3.316	-2.076	-2.721	-3.164
Asymp. Sig. (2-tailed)	.000	.001	.038	.007	.002

a. Grouping Variable: Perlakuan

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	3	30	39.25	1177.50
	4	30	21.75	652.50
	Total	60		
Aroma	3	30	34.73	1042.00
	4	30	26.27	788.00
	Total	60		
Rasa	3	30	32.00	960.00
	4	30	29.00	870.00
	Total	60		
Tekstur	3	30	33.63	1009.00
	4	30	27.37	821.00
	Total	60		
Overall	3	30	34.47	1034.00
	4	30	26.53	796.00
	Total	60		

Test Statistics^a

	Warna	Aroma	Rasa	Tekstur	Overall
Mann-Whitney U	187.500	323.000	405.000	356.000	331.000
Wilcoxon W	652.500	788.000	870.000	821.000	796.000
Z	-4.112	-1.962	-.691	-1.455	-1.834
Asymp. Sig. (2-tailed)	.000	.050	.490	.146	.067

a. Grouping Variable: Perlakuan