

## 7. LAMPIRAN

### Lampiran 1. Proses Pembuatan *Sorbet Liqueur Jahe Merah*



Keterangan :

- a) Bahan Jahe Merah
- b) Inkubasi *Liqueur* Jahe Merah
- c) *Liqueur* Jahe Merah
- d) Proses Kristalisasi *Sorbet*
- e) *Sorbet Liqueur* Jahe Merah
- f) Proses Penyimpanan *Sorbet Liqueur* Jahe Merah

Gambar 6. Proses Pembuatan *Sorbet Liqueur* Jahe Merah

## Lampiran 2. Worksheet Uji Rating Sorbet Liqueur Jahe Merah

### Worksheet Uji Ranking Hedonik

Tanggal Uji : 15 September 2016

Jenis Sampel : Sorbet Liqueur Jahe Merah

#### Identifikasi sampel

#### Kode

Sorbet Liqueur Jahe Merah Maizena jam ke-3	A
Sorbet Liqueur Jahe Merah Maizena jam ke-4	B
Sorbet Liqueur Jahe Merah Maizena jam ke-5	C
Sorbet Liqueur Jahe Merah Pektin jam ke-3	D
Sorbet Liqueur Jahe Merah Pektin jam ke-4	E
Sorbet Liqueur Jahe Merah Pektin jam ke-5	F

#### Kode kombinasi urutan penyajian:

ABCDEF = 1	BACFDE = 3	DFBAEC = 5
ACBEFD = 2	CAFDEB = 4	

#### Penyajian :

Booth	Panelis	Kode Sampel urutan penyajian
I	1,6,11,16,21,26	644,533,461,614,241,711 <sup>1</sup>
II	2,7,12,17,22,27	365,326,225,451,766,965 <sup>2</sup>
III	3,8,13,18,23,28	584,122,272,628,165,775 <sup>3</sup>
IV	4,9,14,19,24,29	222,654,226,692,869,847 <sup>4</sup>
V	5,10,15,20,25,30	983,295,935,196,829,112 <sup>5</sup>

#### Rekap Kode Sampel :

Sampel	A	B	C	D	E	F
Sampel A	644	365	122	654	196	
Sampel B	533	225	584	847	935	
Sampel C	461	326	272	222	112	
Sampel D	614	965	165	692	983	
Sampel E	241	451	775	869	829	
Sampel F	711	766	628	226	295	

### Lampiran 3. *Scoresheet Uji Ranking Sorbet Liqueur Jahe Merah*

#### Uji Ranking Hedonik

Panelis : \_\_\_\_\_ Tanggal : \_\_\_\_\_  
 Produk : *Sorbet Liqueur Jahe Merah*

#### Instruksi

Berkumur-kumurlah lebih dahulu sebelum menguji sampel.

Di hadapan Anda terdapat 6 sampel sorbet *liqueur* herbal. Tulislah terlebih dahulu kode sampel secara berurutan dari kiri ke kanan. Cicupilah sampel secara berurutan dari kiri ke kanan. Setelah mencicipi semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Nilai setiap atribut sampel dari yang disukai sampai dengan sangat tidak disukai dengan menulis angka :

- 1 = Sangat tidak suka
- 2 = Tidak suka
- 3 = Agak tidak suka
- 4 = Agak suka
- 5 = Suka
- 6 = Sangat suka

Kode sampel	Warna	Aroma	Kemanisan	Rasa	Tekstur	<i>Overall</i>

**Lampiran 4. Surat Persetujuan Tindakan Sensori *Sorbet Liqueur Jahe Merah***

**PERSETUJUAN TINDAKAN**

Saya yang bertanda tangan dibawah ini :

Nama :

NIM :

Fakultas :

Bersama dengan ini menyatakan kesediannya untuk melakukan analisa sensori *sorbet liqueur* jahe merah yang memiliki kandungan alkohol sebagai panelis dalam pemeriksaan atribut warna, aroma, kemanisan, rasa, tekstur dan *overall*.

Demikian surat persetujuan ini saya tanda tangani tanpa paksaan dari pihak manapun dan agar di pergunakan sebagaimana mestinya.

Mengetahui

Semarang, 15 September 2016

Pemeriksa

Panelis

(.....)

(.....)

## Lampiran 5. Hasil Pengujian SPSS Perlakuan *Freezing Time*

- Uji Normalitas

Tests of Normality

perlakuan		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
kadar_gula	Maizena	.194	18	.071	.936	18	.251
	Pektin	.182	18	.119	.859	18	.012
pH	Maizena	.111	18	.200*	.985	18	.987
	Pektin	.185	18	.105	.930	18	.191
Antioksidan	Maizena	.184	18	.109	.830	18	.004
	Pektin	.163	18	.200*	.928	18	.176
Hardness	Maizena	.159	18	.200*	.885	18	.032
	Pektin	.195	18	.069	.908	18	.078

Tests of Normality

Bahan		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	maizena	.133	30	.183	.930	30	.050
	pektin	.105	30	.200*	.944	30	.117

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

a. Lilliefors Significance Correction

- Post Hoc *Hardness* Perlakuan *Freezing Time*

### Hardness

Duncan<sup>a</sup>

freezing_time	N	Subset for alpha = 0.05		
		1	2	3
jam_ke_3	12	41.6567		
jam_ke_4	12		48.8925	
jam_ke_5	12			56.5267
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- Independent Samples Test *Hardness* Perlakuan *Stabilizer*

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	Equal variances assumed	3.119	.086	1.338	34	.190	3.00056	2.24309	-1.55796	7.55907
	Equal variances not assumed			1.338	32.567	.190	3.00056	2.24309	-1.56536	7.56647

- **Post Hoc Viskositas Perlakuan *Freezing Time***

**Viskositas**

Duncan<sup>a</sup>

Freezing_time	N	Subset for alpha = 0.05
		1
jam ke-5	12	253.3333
jam ke-4	12	259.5833
jam ke-3	12	263.8333
setelah freezing	12	268.9167
sebelum freezing	12	274.2500
Sig.		.083

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- **Independent Samples Test Viskositas Perlakuan *Stabilizer***

**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
Viskositas	Equal variances assumed	.303	.584	-25.652	58	.000	-49.63333	1.93485	-53.50635	-45.76031
	Equal variances not assumed			-25.652	57.699	.000	-49.63333	1.93485	-53.50678	-45.75988

- **Post Hoc Overrun Perlakuan *Freezing Time***

**overrun**

Duncan<sup>a</sup>

freezing_time	N	Subset for alpha = 0.05
		1
jam_ke_4	12	.02233
jam_ke_3	12	.02325
jam_ke_5	12	.02400
Sig.		.456

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- **Independent Samples Test Overrun Perlakuan *Stabilizer***

**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
overrun	Equal variances assumed	3.705	.063	-1.681	34	.102	-.002722	.001620	-.006014	.000570
	Equal variances not assumed			-1.681	33.184	.102	-.002722	.001620	-.006017	.000573

- **Post Hoc pH Perlakuan *Freezing Time***

pH

Duncan<sup>a</sup>

freezing_time	N	Subset for alpha = 0.05
		1
jam_ke_4	12	5.2817
jam_ke_3	12	5.2975
jam_ke_5	12	5.3417
Sig.		.929

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- ***Independent Samples Test* pH Perlakuan Stabilizer**

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
pH	Equal variances assumed	.033	.857	141.229	34	.000	2.95056	.02089	2.90810	2.99301
	Equal variances not assumed			141.229	34.000	.000	2.95056	.02089	2.90810	2.99301

- **Post Hoc Kadar Gula Perlakuan *Freezing Time***

kadar\_gula

Duncan<sup>a</sup>

freezing_time	N	Subset for alpha = 0.05
		1
jam_ke_3	12	21.8250
jam_ke_4	12	22.2500
jam_ke_5	12	22.4417
Sig.		.500

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- ***Independent Samples Test* Kadar Gula Perlakuan Stabilizer**

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
kadar_gula	Equal variances assumed	.291	.593	-24.495	34	.000	-3.91111	.15967	-4.23560	-3.58663
	Equal variances not assumed			-24.495	32.576	.000	-3.91111	.15967	-4.23612	-3.58610

- **Post Hoc Kadar Aktivitas Antioksidan *Freezing Time***

**Antioksidan**

Duncan<sup>a</sup>

freezing_time	N	Subset for alpha = 0.05
		1
jam_ke_4	12	6.6368
jam_ke_5	12	6.6642
jam_ke_3	12	6.7431
Sig.		.059

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- ***Independent Samples Test* Aktivitas Antioksidan Perlakuan Stabilizer**

		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
Antioksidan	Equal variances assumed	.664	.421	.927	34	.360	.04061	.04380	-.04839	.12962
	Equal variances not assumed			.927	33.367	.360	.04061	.04380	-.04846	.12968



## Lampiran 6. Hasil Pengujian SPSS Perlakuan Umur Simpan

### • Uji Normalitas

**Tests of Normality**

	Bahan	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
overrun	Maizena	.146	48	.052	.939	48	.015
	Pektin	.163	24	.100	.922	24	.066
Kadar_gula	Maizena	.113	48	.164	.967	48	.195
	Pektin	.100	24	.200*	.940	24	.162
pH	Maizena	.097	48	.200*	.960	48	.098
	Pektin	.136	24	.200*	.973	24	.738
Antioksidan	Maizena	.111	48	.187	.934	48	.009
	Pektin	.107	24	.200*	.955	24	.344
Hardness	Maizena	.119	48	.084	.937	48	.012
	Pektin	.127	24	.200*	.937	24	.142

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

a. Lilliefors Significance Correction

**Tests of Normality**

perlakuan		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
viskositas	maizena	.120	48	.082	.924	48	.004
	pektin	.122	48	.070	.927	48	.005

a. Lilliefors Significance Correction

### • Post Hoc Hardness Perlakuan Freezing Time

**Hardness**

Duncan<sup>a</sup>

waktu_simpan	N	Subset for alpha = 0.05							
		1	2	3	4	5	6	7	8
Minggu_1	12	57.6333							
Minggu_2	12		110.4850						
Minggu_3	12			130.5183					
Minggu_4	12				151.2592				
Minggu_5	12					189.1108			
Minggu_6	12						223.7570		
Minggu_7	12							253.4658	
Minggu_8	12								286.1500
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- **Independent Samples Test Hardness Perlakuan Stabilizer**

**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	Equal variances assumed	.011	.915	2.851	94	.005	42.40638	14.87277	12.87615	71.93660
	Equal variances not assumed			2.851	93.999	.005	42.40638	14.87277	12.87614	71.93661

- **Post Hoc Viskositas Perlakuan Freezing Time**

**viskositas**

Duncan<sup>a</sup>

Subset for alpha = 0.05

waktu_simpan	N	1	2	3	4
minggu ke-8	12	155.0833			
minggu ke-7	12	165.1667	165.1667		
minggu ke-6	12	174.7500	174.7500	174.7500	
minggu ke-5	12		183.4167	183.4167	183.4167
minggu ke-4	12			188.9167	188.9167
minggu ke-3	12			193.8333	193.8333
minggu ke-2	12				198.9167
minggu ke-1	12				204.2500
Sig.		.087	.112	.109	.087

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- **Independent Samples Test Viskositas Perlakuan Stabilizer**

**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
viskositas	Equal variances assumed	.506	.479	-15.319	94	.000	-50.37500	3.28833	-56.90407	-43.84593
	Equal variances not assumed			-15.319	93.148	.000	-50.37500	3.28833	-56.90484	-43.84516

- **Post Hoc pH Perlakuan *Freezing Time***

**pH**

Duncan<sup>a</sup>

waktu_simpan	N	Subset for alpha = 0.05
		1
Minggu_8	12	5.4175
Minggu_4	12	5.4233
Minggu_6	12	5.4408
Minggu_2	12	5.4417
Minggu_7	12	5.4450
Minggu_5	12	5.4592
Minggu_3	12	5.4617
Minggu_1	12	5.4633
Sig.		.960

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- **Independent Samples Test pH Perlakuan *Stabilizer***

**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
pH	Equal variances assumed	.298	.587	522.173	94	.000	3.60771	.00691	3.59399	3.62143
	Equal variances not assumed			522.173	91.842	.000	3.60771	.00691	3.59399	3.62143

- **Post Hoc Kadar Gula Perlakuan *Freezing Time***

**Kadar\_gula**

Duncan<sup>a</sup>

waktu_simpan	N	Subset for alpha = 0.05
		1
Minggu_8	12	20.9250
Minggu_4	12	21.1167
Minggu_6	12	21.1333
Minggu_7	12	21.1333
Minggu_3	12	21.1500
Minggu_5	12	21.1583
Minggu_2	12	21.6333
Minggu_1	12	21.6500
Sig.		.084

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- **Independent Samples Test Kadar Gula Perlakuan Stabilizer**

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
Kadar_gula	Equal variances assumed	.071	.791	-6.636	94	.000	-.97917	.14755	-1.27213	-.68621
	Equal variances not assumed			-6.636	93.730	.000	-.97917	.14755	-1.27214	-.68619

- **Post Hoc Kadar Aktivitas Antioksidan Freezing Time**

Antioksidan

Duncan<sup>a</sup>

waktu_simpan	N	Subset for alpha = 0,05							
		1	2	3	4	5	6	7	8
Minggu_8	12	.7533							
Minggu_7	12		.9458						
Minggu_6	12			1.7167					
Minggu_5	12				2.2467				
Minggu_4	12					2.8067			
Minggu_3	12						3.2133		
Minggu_2	12							3.7592	
Minggu_1	12								4.7458
Sig.		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

- **Independent Samples Test Aktivitas Antioksidan Perlakuan Stabilizer**

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
Antioksidan	Equal variances assumed	1.148	.287	.482	94	.631	.12937	.26854	-.40382	.66257
	Equal variances not assumed			.482	92.151	.631	.12937	.26854	-.40396	.66271

## Lampiran 7. Hasil Pengujian SPSS Korelasi

### • Hasil Pengujian SPSS *Sorbet Penambahan Maizena (Kontrol)*

**Correlations**

		hardness	viskositas	kadar_gula	overrun	pH	antioksidan
hardness	Pearson Correlation	1	-.986**	-.661**	.453*	-.334	-.989**
	Sig. (2-tailed)		.000	.000	.026	.111	.000
	N	24	24	24	24	24	24
viskositas	Pearson Correlation	-.986**	1	.697**	-.474*	.385	.977**
	Sig. (2-tailed)	.000		.000	.019	.063	.000
	N	24	24	24	24	24	24
kadar_gula	Pearson Correlation	-.661**	.697**	1	-.053	.204	.652**
	Sig. (2-tailed)	.000	.000		.806	.340	.001
	N	24	24	24	24	24	24
overrun	Pearson Correlation	.453*	-.474*	-.053	1	-.416*	-.399
	Sig. (2-tailed)	.026	.019	.806		.043	.053
	N	24	24	24	24	24	24
pH	Pearson Correlation	-.334	.385	.204	-.416*	1	.305
	Sig. (2-tailed)	.111	.063	.340	.043		.148
	N	24	24	24	24	24	24
antioksidan	Pearson Correlation	-.989**	.977**	.652**	-.399	.305	1
	Sig. (2-tailed)	.000	.000	.001	.053	.148	
	N	24	24	24	24	24	24

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

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

### • Hasil Pengujian SPSS *Sorbet Penambahan Pektin*

**Correlations**

		hardness	viskositas	kadar_gula	overrun	pH	antioksidan
hardness	Pearson Correlation	1	-.985**	-.334	.457*	.129	-.992**
	Sig. (2-tailed)		.000	.110	.025	.548	.000
	N	24	24	24	24	24	24
viskositas	Pearson Correlation	-.985**	1	.282	-.476*	-.093	.961**
	Sig. (2-tailed)	.000		.182	.019	.664	.000
	N	24	24	24	24	24	24
kadar_gula	Pearson Correlation	-.334	.282	1	.132	.245	.360
	Sig. (2-tailed)	.110	.182		.539	.248	.084
	N	24	24	24	24	24	24
overrun	Pearson Correlation	.457*	-.476*	.132	1	.197	-.422*
	Sig. (2-tailed)	.025	.019	.539		.356	.040
	N	24	24	24	24	24	24
pH	Pearson Correlation	.129	-.093	.245	.197	1	-.147
	Sig. (2-tailed)	.548	.664	.248	.356		.494
	N	24	24	24	24	24	24
antioksidan	Pearson Correlation	-.992**	.961**	.360	-.422*	-.147	1
	Sig. (2-tailed)	.000	.000	.084	.040	.494	
	N	24	24	24	24	24	24

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

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

## Lampiran 8. Hasil Pengujian SPSS Sensori *Sorbet Liqueur Jahe Merah*

- Uji Kruskal Wallis

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

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Chi-Square	14.547	21.821	27.117	43.869	40.051	52.234
df	5	5	5	5	5	5
Asymp. Sig.	.012	.001	.000	.000	.000	.000

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

- Uji Mann-Whitney Perlakuan Maizena Jam ke-3 dan Maizena Jam Ke-4

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	368.500	432.500	356.500	395.500	435.500	423.000
Wilcoxon W	833.500	897.500	821.500	860.500	900.500	888.000
Z	-1.231	-.264	-1.416	-.835	-.222	-.415
Asymp. Sig. (2-tailed)	.218	.792	.157	.404	.824	.678

a. Grouping Variable: Perlakuan

- Uji Mann-Whitney Perlakuan Maizena Jam ke-3 dan Maizena Jam Ke-5

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	325.000	439.000	296.000	163.500	287.500	297.500
Wilcoxon W	790.000	904.000	761.000	628.500	752.500	762.500
Z	-1.876	-.166	-2.329	-4.326	-2.451	-2.307
Asymp. Sig. (2-tailed)	.061	.868	.020	.000	.014	.021

a. Grouping Variable: Perlakuan

- Uji Mann-Whitney Perlakuan Maizena Jam ke-3 dan Pektin Jam Ke-3

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	358.500	262.000	240.500	155.500	212.500	192.500
Wilcoxon W	823.500	727.000	705.500	620.500	677.500	657.500
Z	-1.374	-2.834	-3.157	-4.439	-3.571	-3.882
Asymp. Sig. (2-tailed)	.170	.005	.002	.000	.000	.000

a. Grouping Variable: Perlakuan

- Uji Mann-Whitney Perlakuan Maizena Jam ke-3 dan Pektin Jam Ke-4

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	374.500	354.000	224.000	186.000	180.000	159.500
Wilcoxon W	839.500	819.000	689.000	651.000	645.000	624.500
Z	-1.133	-1.457	-3.401	-3.976	-4.064	-4.370
Asymp. Sig. (2-tailed)	.257	.145	.001	.000	.000	.000

a. Grouping Variable: Perlakuan

- Uji Mann-Whitney Perlakuan Maizena Jam ke-3 dan Pektin Jam Ke-5

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	330.500	290.500	173.000	119.500	204.500	157.500
Wilcoxon W	795.500	755.500	638.000	584.500	669.500	622.500
Z	-1.794	-2.404	-4.162	-4.966	-3.706	-4.414
Asymp. Sig. (2-tailed)	.073	.016	.000	.000	.000	.000

a. Grouping Variable: Perlakuan

- Uji Mann-Whitney Perlakuan Maizena Jam ke-4 dan Maizena Jam Ke-5

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	246.500	434.500	395.500	239.000	269.500	295.000
Wilcoxon W	711.500	899.500	860.500	704.000	734.500	760.000
Z	-3.054	-.236	-.821	-3.172	-2.729	-2.359
Asymp. Sig. (2-tailed)	.002	.814	.412	.002	.006	.018

a. Grouping Variable: Perlakuan

- Uji Mann-Whitney Perlakuan Maizena Jam ke-4 dan Pektin Jam Ke-3

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	284.500	217.500	321.000	212.000	187.500	171.000
Wilcoxon W	749.500	682.500	786.000	677.000	652.500	636.000
Z	-2.488	-3.510	-1.940	-3.574	-3.953	-4.189
Asymp. Sig. (2-tailed)	.013	.000	.052	.000	.000	.000

a. Grouping Variable: Perlakuan

- Uji Mann-Whitney Perlakuan Maizena Jam ke-4 dan Pektin Jam Ke-4

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	281.500	366.500	281.000	246.000	163.500	146.000
Wilcoxon W	746.500	831.500	746.000	711.000	628.500	611.000
Z	-2.541	-1.255	-2.538	-3.068	-4.329	-4.572
Asymp. Sig. (2-tailed)	.011	.209	.011	.002	.000	.000

a. Grouping Variable: Perlakuan

- Uji Mann-Whitney Perlakuan Maizena Jam ke-4 dan Pektin Jam Ke-5

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	259.000	284.000	229.000	178.500	175.000	141.000
Wilcoxon W	724.000	749.000	694.000	643.500	640.000	606.000
Z	-2.867	-2.499	-3.331	-4.096	-4.134	-4.643
Asymp. Sig. (2-tailed)	.004	.012	.001	.000	.000	.000

a. Grouping Variable: Perlakuan

- **Uji Mann-Whitney Perlakuan Maizena Jam ke-5 dan Pektin Jam Ke-3**

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	416.500	185.000	370.000	416.000	353.000	266.000
Wilcoxon W	881.500	650.000	835.000	881.000	818.000	731.000
Z	-.504	-3.999	-1.203	-.514	-1.457	-2.774
Asymp. Sig. (2-tailed)	.615	.000	.229	.607	.145	.006

a. Grouping Variable: Perlakuan

- **Uji Mann-Whitney Perlakuan Maizena Jam ke-5 dan Pektin Jam Ke-4**

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	393.500	334.500	329.000	449.000	294.500	231.000
Wilcoxon W	858.500	799.500	794.000	914.000	759.500	696.000
Z	-.850	-1.736	-1.819	-.015	-2.343	-3.299
Asymp. Sig. (2-tailed)	.395	.083	.069	.988	.019	.001

a. Grouping Variable: Perlakuan

- **Uji Mann-Whitney Perlakuan Maizena Jam ke-5 dan Pektin Jam Ke-5**

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	448.500	256.000	292.500	375.500	329.500	215.500
Wilcoxon W	913.500	721.000	757.500	840.500	794.500	680.500
Z	-.023	-2.919	-2.381	-1.124	-1.822	-3.526
Asymp. Sig. (2-tailed)	.982	.004	.017	.261	.069	.000

a. Grouping Variable: Perlakuan

- **Uji Mann-Whitney Perlakuan Pektin Jam ke-3 dan Pektin Jam Ke-4**

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	433.000	362.500	397.000	407.000	381.500	385.000
Wilcoxon W	898.000	827.500	862.000	872.000	846.500	850.000
Z	-.255	-1.320	-.801	-.648	-1.040	-.985
Asymp. Sig. (2-tailed)	.799	.187	.423	.517	.298	.325

a. Grouping Variable: Perlakuan

- **Uji Mann-Whitney Perlakuan Pektin Jam ke-3 dan Pektin Jam Ke-5**

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	419.500	413.000	354.500	440.500	431.500	364.500
Wilcoxon W	884.500	878.000	819.500	905.500	896.500	829.500
Z	-.459	-.561	-1.441	-.144	-.280	-1.297
Asymp. Sig. (2-tailed)	.646	.575	.150	.885	.779	.195

a. Grouping Variable: Perlakuan



- Uji Mann-Whitney Perlakuan Pektin Jam ke-4 dan Pektin Jam Ke-5

Test Statistics<sup>a</sup>

	Warna	Aroma	Kemanisan	Rasa	Tekstur	Overall
Mann-Whitney U	399.500	392.500	421.000	386.000	390.500	441.500
Wilcoxon W	864.500	857.500	886.000	851.000	855.500	906.500
Z	-.759	-.867	-.440	-.969	-.902	-.130
Asymp. Sig. (2-tailed)	.448	.386	.660	.332	.367	.897

a. Grouping Variable: Perlakuan

