

## 7. LAMPIRAN

### 7.1 Test Normalitas Karakteristik Kimia Es Krim Beras Merah

Tests of Normality<sup>b,c,d,e</sup>

perlakuan	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
kadar_air	beras merah 0% whipping cream 100%	,197	6	,200*	,968	6	,880
	beras merah 25% whipping cream 75%	,190	6	,200*	,905	6	,403
	beras merah 50% whipping cream 50%	,279	6	,160	,837	6	,124
	beras merah 75% whipping cream 0%	,279	6	,157	,825	6	,098
kadar_protein	beras merah 0% whipping cream 100%	,234	6	,200*	,910	6	,435
	beras merah 25% whipping cream 75%	,290	6	,125	,860	6	,188
	beras merah 50% whipping cream 50%	,298	6	,103	,890	6	,316
	beras merah 75% whipping cream 0%	,262	6	,200*	,897	6	,357
kadar_lemak	beras merah 0% whipping cream 100%	,239	6	,200*	,938	6	,647
	beras merah 25% whipping cream 75%	,264	6	,200*	,859	6	,185
	beras merah 50% whipping cream 50%	,174	6	,200*	,962	6	,833
	beras merah 75% whipping cream 0%	,314	6	,066	,824	6	,096
kadar_pati	beras merah 0% whipping cream 100%	,326	6	,059	,838	6	,125
	beras merah 25% whipping cream 75%	,199	6	,200*	,969	6	,886
	beras merah 50% whipping cream 50%	,211	6	,200*	,931	6	,584
	beras merah 75% whipping cream 0%	,228	6	,200*	,874	6	,244
	tepung beras merah saja	,365	3	.	,798	3	,110
Total_padatan	beras merah 0% whipping cream 100%	,197	6	,200*	,968	6	,880
	beras merah 25% whipping cream 75%	,190	6	,200*	,905	6	,403
	beras merah 50% whipping cream 50%	,279	6	,160	,837	6	,124
	beras merah 75% whipping cream 0%	,279	6	,157	,825	6	,098

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

a. Lilliefors Significance Correction

b. kadar\_air is constant when perlakuan = tepung beras merah saja. It has been omitted.

c. kadar\_protein is constant when perlakuan = tepung beras merah saja. It has been omitted.

d. kadar\_lemak is constant when perlakuan = tepung beras merah saja. It has been omitted.

e. Total\_padatan is constant when perlakuan = tepung beras merah saja. It has been omitted.

## 7.2 Test Homogenitas Semua Varians Karakteristik Kimia Es Krim

### Test of Homogeneity of Variances

	Levene Statistic	df 1	df 2	Sig.
kadar_air	8,639	4	22	,000
kadar_protein	5,757	4	22	,003
kadar_lemak	11,813	4	22	,000
kadar_pati	21,239	4	22	,000
Total_padatan	8,639	4	22	,000

## 7.3 Post Hoc Test

### 7.3.1 Kadar Air

kadar\_air

Duncan<sup>a,b</sup>

perlakuan	N	Subset for alpha = .05	
		1	2
tepung beras merah saja	3	,0000	
beras merah 0% whipping cream 100%	6		73,2396
beras merah 25% whipping cream 75%	6		75,0693
beras merah 75% whipping cream 0%	6		76,6969
beras merah 50% whipping cream 50%	6		78,3105
Sig.		1,000	,075

Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 5,000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

### 7.3.2 Kadar Protein

kadar\_protein

Duncan<sup>a,b</sup>

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
tepung beras merah saja	3	,0000				
beras merah 0% whipping cream 100%	6		2,4324			
beras merah 25% whipping cream 75%	6			4,2955		
beras merah 50% whipping cream 50%	6				6,3762	
beras merah 75% whipping cream 0%	6					8,7031
Sig.		1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 5,000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

### 7.3.3 Kadar Lemak

## kadar\_lemak

Duncan<sup>a,b</sup>

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
tepung beras merah saja	3	,0000			
beras merah 75% whipping cream 0%	6	,9589			
beras merah 50% whipping cream 50%	6		5,3080		
beras merah 25% whipping cream 75%	6			12,2362	
beras merah 0% whipping cream 100%	6				17,4989
Sig.		,408	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

## 7.3.4 Kadar Pati

## kadar\_pati

Duncan<sup>a,b</sup>

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
beras merah 0% whipping cream 100%	6	,0597				
beras merah 25% whipping cream 75%	6		1,7192			
beras merah 50% whipping cream 50%	6			3,4846		
beras merah 75% whipping cream 0%	6				6,8373	
tepung beras merah saja	3					36,4987
Sig.		1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

### 7.3.5 Total Padatan

Total\_padatan

Duncan<sup>a,b</sup>

perlakuan	N	Subset for alpha = .05	
		1	2
tepung beras merah saja	3	,0000	
beras merah 50% whipping cream 50%	6		21,6895
beras merah 75% whipping cream 0%	6		23,3031
beras merah 25% whipping cream 75%	6		24,9307
beras merah 0% whipping cream 100%	6		26,7604
Sig.		1,000	,075

Means for groups in homogeneous subsets are displayed.

- a. Uses Harmonic Mean Sample Size = 5,000.
- b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.



## 7.4 Test Normalitas Karakteristik Fisik Es Krim Beras Merah

Tests of Normality<sup>b,c,d,e,f</sup>

perlakuan	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Hardness	beras merah 0% whipping cream 100%	,213	6	,200*	,940	6	,656
	beras merah 25% whipping cream 75%	,279	6	,159	,849	6	,155
	beras merah 50% whipping cream 50%	,218	6	,200*	,933	6	,606
	beras merah 75% whipping cream 0%	,165	6	,200*	,915	6	,473
Viskositas_I	beras merah 0% whipping cream 100%	,202	6	,200*	,853	6	,167
	beras merah 25% whipping cream 75%	,186	6	,200*	,886	6	,300
	beras merah 50% whipping cream 50%	,313	6	,067	,785	6	,043
	beras merah 75% whipping cream 0%	,245	6	,200*	,902	6	,389
viskositas_II	beras merah 0% whipping cream 100%	,183	6	,200*	,960	6	,820
	beras merah 25% whipping cream 75%	,244	6	,200*	,872	6	,235
	beras merah 50% whipping cream 50%	,272	6	,189	,822	6	,092
	beras merah 75% whipping cream 0%	,229	6	,200*	,858	6	,181
Overrun	beras merah 0% whipping cream 100%	,319	6	,056	,683	6	,004
	beras merah 25% whipping cream 75%	,310	6	,074	,805	6	,065
	beras merah 50% whipping cream 50%	,319	6	,056	,683	6	,004
	beras merah 75% whipping cream 0%	,319	6	,056	,683	6	,004
Time_to_melt	beras merah 0% whipping cream 100%	,293	6	,117	,915	6	,473
	beras merah 25% whipping cream 75%	,202	6	,200*	,853	6	,167
	beras merah 50% whipping cream 50%	,277	6	,168	,773	6	,033
	beras merah 75% whipping cream 0%	,239	6	,200*	,955	6	,784

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

a. Lilliefors Significance Correction

b. There are no valid cases for Hardness when perlakuan = 5,000. Statistics cannot be computed for this level.

c. There are no valid cases for Viskositas\_I when perlakuan = 5,000. Statistics cannot be computed for this level.

d. There are no valid cases for viskositas\_II when perlakuan = 5,000. Statistics cannot be computed for this level.

e. There are no valid cases for Overrun when perlakuan = 5,000. Statistics cannot be computed for this level.

f. There are no valid cases for Time\_to\_melt when perlakuan = 5,000. Statistics cannot be computed for this level.

## 7.5 Test Homogenitas Semua Varians Pada Karakteristik Fisik Es Krim

### Test of Homogeneity of Variances

	Levene Statistic	df 1	df 2	Sig.
Hardness	1,655	4	22	,196
Viskositas_I	11,249	4	22	,000
viskositas_II	4,023	4	22	,013
Overrun	87,694	4	22	,000
Time_to_melt	2,435	3	20	,095

## 7.6 Post Hoc Test

### 7.6.1 Hardness

**Hardness**

Duncan<sup>a,b</sup>

perlakuan	N	Subset for alpha = .05		
		1	2	3
tepung beras merah saja	3	,0000		
beras merah 25% whipping cream 75%	6		8,3821	
beras merah 0% whipping cream 100%	6		9,5987	
beras merah 50% whipping cream 50%	6			14,9081
beras merah 75% whipping cream 0%	6			17,0022
Sig.		1,000	,505	,255

Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 5,000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

## 7.6.2 Viskositas I

Viskositas\_I

Duncan<sup>a,b</sup>

perlakuan	N	Subset for alpha = .05		
		1	2	3
tepung beras merah saja	3	,0000		
beras merah 0% whipping cream 100%	6	,6000		
beras merah 25% whipping cream 75%	6	1,1333		
beras merah 50% whipping cream 50%	6		2,7083	
beras merah 75% whipping cream 0%	6			7,0000
Sig.		,108	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

## 7.6.3 Viskositas II

viskositas\_II

Duncan<sup>a,b</sup>

perlakuan	N	Subset for alpha = .05		
		1	2	3
tepung beras merah saja	3	,0000		
beras merah 25% whipping cream 75%	6		3,8300	
beras merah 50% whipping cream 50%	6		4,7917	
beras merah 0% whipping cream 100%	6			8,5000
beras merah 75% whipping cream 0%	6			8,5000
Sig.		1,000	,237	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

### 7.6.4 Overrun

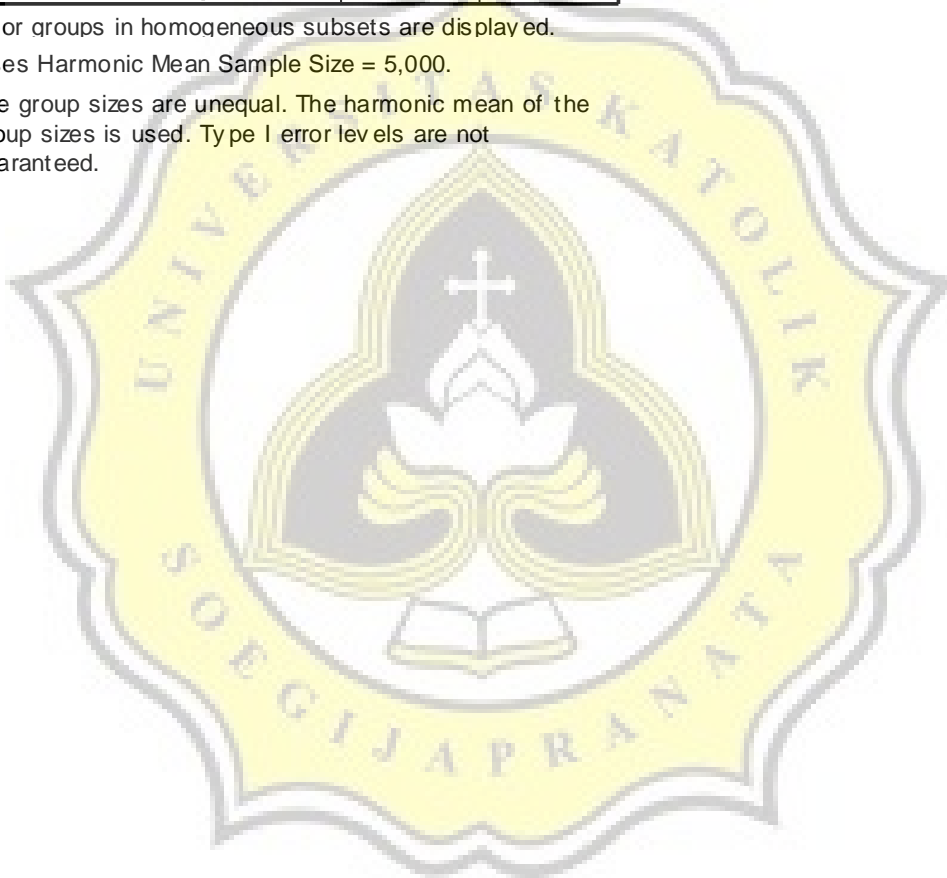
#### Overrun

Duncan<sup>a,b</sup>

perlakuan	N	Subset for alpha = .05	
		1	2
tepung beras merah saja	3	,0000	
beras merah 75% whipping cream 0%	6		78,1250
beras merah 50% whipping cream 50%	6		81,2500
beras merah 25% whipping cream 75%	6		82,2917
beras merah 0% whipping cream 100%	6		87,5000
Sig.		1,000	,122

Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 5,000.
- The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.





### 7.7 Hasil Analisa Fisik Berat Lelehan Es Krim berdasarkan Waktu dan Suhu terhadap Es Krim Beras Merah

Analisa Fisik	Waktu (menit)	Suhu (°C)	Berat Lelehan (g)
Kontrol	5	-13,37 ± 0,83	5,09 ± 3,14
	10	-11,03 ± 0,83	4,91 ± 2,69
	15	-8,58 ± 0,61	4,49 ± 2,13
	20	-7,17 ± 0,89	7,44 ± 4,97
	25	-5,57 ± 1,16	7,69 ± 2,58
	30	-3,83 ± 2,16	5,31 ± 3,28
	35	-2,88 ± 2,38	4,74 ± 4,14
	40	-1,28 ± 2,04	1,79 ± 4,40
25% tepung beras merah : 75% <i>whipped cream</i>	5	-13,97 ± 0,23	3,46 ± 1,74
	10	-11,43 ± 1,22	2,59 ± 1,17
	15	-9,15 ± 1,01	5,49 ± 1,77
	20	-7,98 ± 0,66	8,59 ± 2,98
	25	-6,68 ± 0,74	8,01 ± 2,67
	30	-5,05 ± 0,85	9,06 ± 5,97
	35	-3,22 ± 1,74	4,32 ± 3,19
	40	-0,88 ± 1,38	2,05 ± 3,73
50% tepung beras merah : 50% <i>whipped cream</i>	5	-12,27 ± 0,61	2,28 ± 0,93
	10	-10,37 ± 1,02	2,41 ± 0,75
	15	-8,77 ± 1,41	5,13 ± 4,56
	20	-7,63 ± 1,39	7,82 ± 5,14
	25	-6,42 ± 1,52	6,41 ± 1,16
	30	-5,25 ± 1,25	5,90 ± 1,59
	35	-4,00 ± 1,21	5,47 ± 1,24
	40	-2,72 ± 1,95	4,49 ± 2,35
	45	-0,97 ± 1,68	1,67 ± 2,59
	50	-0,53 ± 1,31	0,51 ± 1,26
	55	-0,32 ± 0,78	0,55 ± 1,35
75% tepung beras merah : 25% <i>whipped cream</i>	5	-7,35 ± 1,01	1,53 ± 1,38
	10	-5,83 ± 0,53	2,82 ± 1,77
	15	-4,95 ± 0,71	4,83 ± 4,61
	20	-4,35 ± 0,86	5,45 ± 3,86
	25	-3,58 ± 1,09	5,31 ± 4,54
	30	-1,63 ± 2,90	4,13 ± 1,63
	35	-0,77 ± 2,76	2,95 ± 2,55
	40	0,00 ± 1,84	2,69 ± 3,40
	45	0,45 ± 2,11	3,33 ± 4,42
	50	0,48 ± 2,19	2,56 ± 4,09
	55	0,97 ± 3,16	2,05 ± 3,21
	60	0,62 ± 1,51	1,03 ± 2,51
	65	0,98 ± 2,41	1,03 ± 2,51
	70	1,70 ± 4,16	0,64 ± 1,57

### 7.8 Korelasi Karakteristik Fisik – Kimia Es Krim Beras Merah Konsentrasi 0 – 75% Tepung Beras Merah : 100 -25 % whipped cream

Correlations

		kadar air	kadar protein	kadar lemak	kadar pati	Total padatan	Hardness	Viskositas I	viskositas II	Overrun	Time to melt
kadar_air	Pearson Correlation	1	,655**	,362	-,950**	,797**	,674**	,397*	,661**	,953**	,497*
	Sig. (2-tailed)		,000	,064	,000	,000	,000	,040	,000	,000	,013
	N	27	27	27	27	27	27	27	27	27	24
kadar_protein	Pearson Correlation	,655**	1	-,431*	-,424*	,390*	,825**	,862**	,461*	,501**	,659**
	Sig. (2-tailed)	,000		,025	,028	,044	,000	,000	,015	,008	,000
	N	27	27	27	27	27	27	27	27	27	24
kadar lemak	Pearson Correlation	,362	-,431*	1	-,591**	,503**	-,183	-,560**	,232	,516**	-,576**
	Sig. (2-tailed)	,064	,025		,001	,008	,362	,002	,245	,006	,003
	N	27	27	27	27	27	27	27	27	27	24
kadar_pati	Pearson Correlation	-,950**	-,424*	-,591**	1	-,890**	-,543**	-,136	-,609**	-,952**	,599**
	Sig. (2-tailed)	,000	,028	,001		,000	,003	,498	,001	,000	,002
	N	27	27	27	27	27	27	27	27	27	24
Total_padatan	Pearson Correlation	,797**	,390*	,503**	-,890**	1	,588**	,103	,552**	,804**	-,497*
	Sig. (2-tailed)	,000	,044	,008	,000		,001	,610	,003	,000	,013
	N	27	27	27	27	27	27	27	27	27	24
Hardness	Pearson Correlation	,674**	,825**	-,183	-,543**	,588**	1	,667**	,541**	,585**	,315
	Sig. (2-tailed)	,000	,000	,362	,003	,001		,000	,004	,001	,134
	N	27	27	27	27	27	27	27	27	27	24
Viskositas_I	Pearson Correlation	,397*	,862**	-,560**	-,136	,103	,667**	1	,555**	,261	,553**
	Sig. (2-tailed)	,040	,000	,002	,498	,610	,000		,003	,188	,005
	N	27	27	27	27	27	27	27	27	27	24
viskositas_II	Pearson Correlation	,661**	,461*	,232	-,609**	,552**	,541**	,555**	1	,652**	,129
	Sig. (2-tailed)	,000	,015	,245	,001	,003	,004	,003		,000	,549
	N	27	27	27	27	27	27	27	27	27	24
Overrun	Pearson Correlation	,953**	,501**	,516**	-,952**	,804**	,585**	,261	,652**	1	-,015
	Sig. (2-tailed)	,000	,008	,006	,000	,000	,001	,188	,000		,943
	N	27	27	27	27	27	27	27	27	27	24
Time_to_melt	Pearson Correlation	,497*	,659**	-,576**	,599**	-,497*	,315	,553**	,129	-,015	1
	Sig. (2-tailed)	,013	,000	,003	,002	,013	,134	,005	,549	,943	
	N	24	24	24	24	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).

### 7.9 Korelasi Karakteristik Fisik – Kimia Es Krim Beras Merah Konsentrasi 0 – 50% Tepung Beras Merah : 100 -50% whipped cream

Correlations

		kadar air	kadar protein	kadar lemak	kadar pati	Total padatan	Hardness	Viskositas I	viskositas II	Overrun	Time to melt
kadar_air	Pearson Correlation	1	,538*	-,362	,476*	-1,000**	,092	,823**	-,029	,275	,369
	Sig. (2-tailed)		,021	,140	,046	,000	,716	,000	,908	,269	,132
	N	18	18	18	18	18	18	18	18	18	18
kadar_protein	Pearson Correlation	,538*	1	-,914**	,983**	-,538*	,535*	,746**	-,621**	-,230	,642**
	Sig. (2-tailed)	,021		,000	,000	,021	,022	,000	,006	,358	,004
	N	18	18	18	18	18	18	18	18	18	18
kadar lemak	Pearson Correlation	-,362	-,914**	1	-,931**	,362	-,528*	-,668**	,518*	,372	-,544*
	Sig. (2-tailed)	,140	,000		,000	,140	,024	,002	,028	,129	,020
	N	18	18	18	18	18	18	18	18	18	18
kadar_pati	Pearson Correlation	,476*	,983**	-,931**	1	-,476*	,541*	,695**	-,650**	-,282	,653**
	Sig. (2-tailed)	,046	,000	,000		,046	,021	,001	,004	,257	,003
	N	18	18	18	18	18	18	18	18	18	18
Total_padatan	Pearson Correlation	-1,000**	-,538*	,362	-,476*	1	-,092	-,823**	,029	-,275	-,369
	Sig. (2-tailed)	,000	,021	,140	,046		,716	,000	,908	,269	,132
	N	18	18	18	18	18	18	18	18	18	18
Hardness	Pearson Correlation	,092	,535*	-,528*	,541*	-,092	1	,497*	-,159	-,110	,181
	Sig. (2-tailed)	,716	,022	,024	,021	,716		,036	,529	,664	,473
	N	18	18	18	18	18	18	18	18	18	18
Viskositas_I	Pearson Correlation	,823**	,746**	-,668**	,695**	-,823**	,497*	1	-,141	,054	,356
	Sig. (2-tailed)	,000	,000	,002	,001	,000	,036		,577	,831	,147
	N	18	18	18	18	18	18	18	18	18	18
viskositas_II	Pearson Correlation	-,029	-,621**	,518*	-,650**	,029	-,159	-,141	1	,286	-,366
	Sig. (2-tailed)	,908	,006	,028	,004	,908	,529	,577		,250	,135
	N	18	18	18	18	18	18	18	18	18	18
Overrun	Pearson Correlation	,275	-,230	,372	-,282	-,275	-,110	,054	,286	1	,040
	Sig. (2-tailed)	,269	,358	,129	,257	,269	,664	,831	,250		,873
	N	18	18	18	18	18	18	18	18	18	18
Time_to_melt	Pearson Correlation	,369	,642**	-,544*	,653**	-,369	,181	,356	-,366	,040	1
	Sig. (2-tailed)	,132	,004	,020	,003	,132	,473	,147	,135	,873	
	N	18	18	18	18	18	18	18	18	18	18

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

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

## 8.0 Uji Mann – Whitney pada Analisa Sensori

### 8.0.1 Uji Mann – Whitney pada Konsentrasi 25% tepung beras merah : 75% *whipped cream* dan 50% tepung beras merah : 50% *whipped cream*

Ranks

Konsentrasi		N	Mean Rank	Sum of Ranks
tekstur	tepung beras merah 25% whipped cream 75%	30	28,20	846,00
	tepung beras merah 50% whipped cream 50%	30	32,80	984,00
	Total	60		
sandiness	tepung beras merah 25% whipped cream 75%	30	31,78	953,50
	tepung beras merah 50% whipped cream 50%	30	29,22	876,50
	Total	60		
creamness	tepung beras merah 25% whipped cream 75%	30	28,23	847,00
	tepung beras merah 50% whipped cream 50%	30	32,77	983,00
	Total	60		
overall	tepung beras merah 25% whipped cream 75%	30	31,20	936,00
	tepung beras merah 50% whipped cream 50%	30	29,80	894,00
	Total	60		

Test Statistics<sup>a</sup>

	tekstur	sandiness	creamness	overall
Mann-Whitney U	381,000	411,500	382,000	429,000
Wilcoxon W	846,000	876,500	847,000	894,000
Z	-1,086	-,614	-1,080	-,334
Asymp. Sig. (2-tailed)	,278	,539	,280	,739

a. Grouping Variable: Konsentrasi

**8.0.2 Uji Mann – Whitney pada Konsentrasi 25% tepung beras merah : 75% whipped cream dan 75% tepung beras merah : 25% whipped cream**

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
tekstur	tepung beras merah 25% whipped cream 75%	30	35,80	1074,00
	tepung beras merah 75% whipped cream 25%	30	25,20	756,00
	Total	60		
sandiness	tepung beras merah 25% whipped cream 75%	30	41,33	1240,00
	tepung beras merah 75% whipped cream 25%	30	19,67	590,00
	Total	60		
creamness	tepung beras merah 25% whipped cream 75%	30	37,80	1134,00
	tepung beras merah 75% whipped cream 25%	30	23,20	696,00
	Total	60		
overall	tepung beras merah 25% whipped cream 75%	30	39,73	1192,00
	tepung beras merah 75% whipped cream 25%	30	21,27	638,00
	Total	60		

Test Statistics<sup>a</sup>

	tekstur	sandiness	creamness	overall
Mann-Whitney U	291,000	125,000	231,000	173,000
Wilcoxon W	756,000	590,000	696,000	638,000
Z	-2,437	-5,012	-3,377	-4,278
Asymp. Sig. (2-tailed)	,015	,000	,001	,000

a. Grouping Variable: Konsentrasi

### 8.0.3 Uji Mann – Whitney pada Konsentrasi 25% tepung beras merah : 75% *whipped cream* dan 100% tepung beras merah : 0% *whipped cream*

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
tekstur	tepung beras merah 25% whipped cream 75%	30	36,87	1106,00
	tepung beras merah 100% whipped cream 0%	30	24,13	724,00
	Total	60		
sandiness	tepung beras merah 25% whipped cream 75%	30	41,52	1245,50
	tepung beras merah 100% whipped cream 0%	30	19,48	584,50
	Total	60		
creamness	tepung beras merah 25% whipped cream 75%	30	37,35	1120,50
	tepung beras merah 100% whipped cream 0%	30	23,65	709,50
	Total	60		
overall	tepung beras merah 25% whipped cream 75%	30	41,80	1254,00
	tepung beras merah 100% whipped cream 0%	30	19,20	576,00
	Total	60		

Test Statistics<sup>a</sup>

	tekstur	sandiness	creamness	overall
Mann-Whitney U	259,000	119,500	244,500	111,000
Wilcoxon W	724,000	584,500	709,500	576,000
Z	-2,950	-5,051	-3,158	-5,226
Asymp. Sig. (2-tailed)	,003	,000	,002	,000

a. Grouping Variable: Konsentrasi

#### 8.0.4 Uji Mann – Whitney pada Konsentrasi 50% tepung beras merah : 50% *whipped cream* dan 75% tepung beras merah : 25% *whipped cream*

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
tekstur	tepung beras merah 50% whipped cream 50%	30	37,80	1134,00
	tepung beras merah 75% whipped cream 25%	30	23,20	696,00
	Total	60		
sandiness	tepung beras merah 50% whipped cream 50%	30	40,13	1204,00
	tepung beras merah 75% whipped cream 25%	30	20,87	626,00
	Total	60		
creamness	tepung beras merah 50% whipped cream 50%	30	40,63	1219,00
	tepung beras merah 75% whipped cream 25%	30	20,37	611,00
	Total	60		
overall	tepung beras merah 50% whipped cream 50%	30	38,97	1169,00
	tepung beras merah 75% whipped cream 25%	30	22,03	661,00
	Total	60		

Test Statistics<sup>a</sup>

	tekstur	sandiness	creamness	overall
Mann-Whitney U	231,000	161,000	146,000	196,000
Wilcoxon W	696,000	626,000	611,000	661,000
Z	-3,363	-4,477	-4,705	-3,904
Asymp. Sig. (2-tailed)	,001	,000	,000	,000

a. Grouping Variable: Konsentrasi

### 8.0.5 Uji Mann – Whitney pada Konsentrasi 50% tepung beras merah : 50% *whipped cream* dan 100% tepung beras merah : 0% *whipped cream*

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
tekstur	tepung beras merah 50% whipped cream 50%	30	39,10	1173,00
	tepung beras merah 100% whipped cream 0%	30	21,90	657,00
	Total	60		
sandiness	tepung beras merah 50% whipped cream 50%	30	40,63	1219,00
	tepung beras merah 100% whipped cream 0%	30	20,37	611,00
	Total	60		
creamness	tepung beras merah 50% whipped cream 50%	30	39,93	1198,00
	tepung beras merah 100% whipped cream 0%	30	21,07	632,00
	Total	60		
overall	tepung beras merah 50% whipped cream 50%	30	40,90	1227,00
	tepung beras merah 100% whipped cream 0%	30	20,10	603,00
	Total	60		

Test Statistics<sup>a</sup>

	tekstur	sandiness	creamness	overall
Mann-Whitney U	192,000	146,000	167,000	138,000
Wilcoxon W	657,000	611,000	632,000	603,000
Z	-3,985	-4,654	-4,374	-4,826
Asymp. Sig. (2-tailed)	,000	,000	,000	,000

a. Grouping Variable: Konsentrasi



### 8.0.6 Uji Mann – Whitney pada Konsentrasi 75% tepung beras merah : 25% *whipped cream* dan 100% tepung beras merah : 0% *whipped cream*

Test Statistics<sup>a</sup>

	tekstur	sandiness	creamness	ov erall
Mann-Whitney U	442,000	382,000	450,000	402,000
Wilcoxon W	907,000	847,000	915,000	867,000
Z	-,123	-1,096	,000	-,757
Asy mp. Sig. (2-tailed)	,902	,273	1,000	,449

a. Grouping Variable: Konsentrasi

8

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
tekstur	tepung beras merah 75% whipped cream 25%	30	30,77	923,00
	tepung beras merah 100% whipped cream 0%	30	30,23	907,00
	Total	60		
sandiness	tepung beras merah 75% whipped cream 25%	30	32,77	983,00
	tepung beras merah 100% whipped cream 0%	30	28,23	847,00
	Total	60		
creamness	tepung beras merah 75% whipped cream 25%	30	30,50	915,00
	tepung beras merah 100% whipped cream 0%	30	30,50	915,00
	Total	60		
ov erall	tepung beras merah 75% whipped cream 25%	30	32,10	963,00
	tepung beras merah 100% whipped cream 0%	30	28,90	867,00
	Total	60		

8.1 **Kuisiener Uji Sensori untuk Uji Pendahuluan**  
**UJI HEDONIK ES KRIM EKSTRUDAT**  
**BERAS MERAH**

Nama :  
 Umur :  
 Tanggal pengujian :

Instruksi :

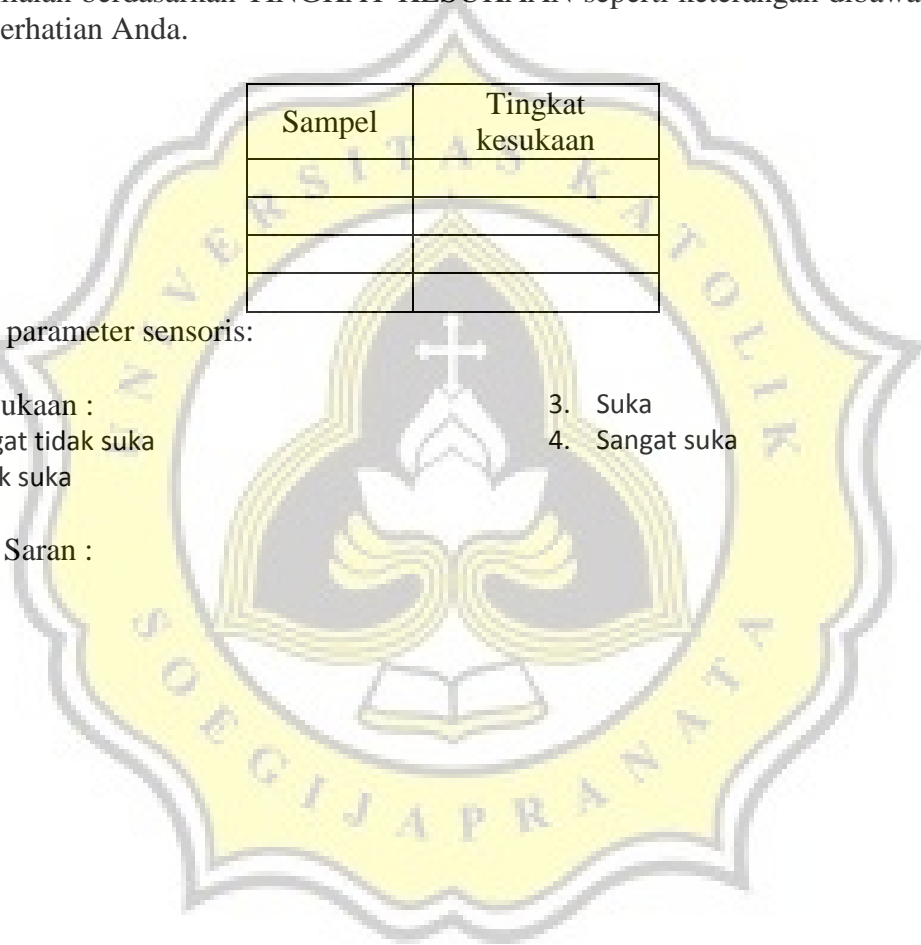
Di hadapan Anda telah tersedia 4 sampel es krim. Sebelum Anda mencicipi tiap sampel minumlah air putih terlebih dahulu. Rasakanlah tiap sampel dari kiri ke kanan. Setelah mencicipi tiap sampel, Anda dapat memberikan penilaian atas dasar **TEKSTUR** es krim dengan menggunakan skala rating (boleh ada yang dobel). Berilah skor dari (1) sampai (4) dimana penilaian berdasarkan **TINGKAT KESUKAAN** seperti keterangan dibawah.. Terima kasih atas perhatian Anda.

Sampel	Tingkat kesukaan

Keterangan parameter sensoris:

Tingkat kesukaan :  
 1. Sangat tidak suka  
 2. Tidak suka  
 3. Suka  
 4. Sangat suka

Komentar / Saran :



### UJI HEDONIK ES KRIM EKSTRUDAT BERAS MERAH

Nama :  
Umur :  
Tanggal pengujian :

Instruksi :

Di hadapan Anda telah tersedia 4 sampel es krim. Sebelum Anda mencicipi tiap sampel minumlah air putih terlebih dahulu. Rasakanlah tiap sampel dari kiri ke kanan. Setelah mencicipi tiap sampel, Anda dapat memberikan penilaian atas dasar *SANDINESS* (rasa berpasir (bertepung) pada es krim) dengan menggunakan skala rating (boleh ada yang dobel). Berilah skor dari (1) sampai (4) dimana penilaian berdasarkan **TINGKAT KESUKAAN** seperti keterangan dibawah.. Terima kasih atas perhatian Anda.

Sampel	Tingkat kesukaan

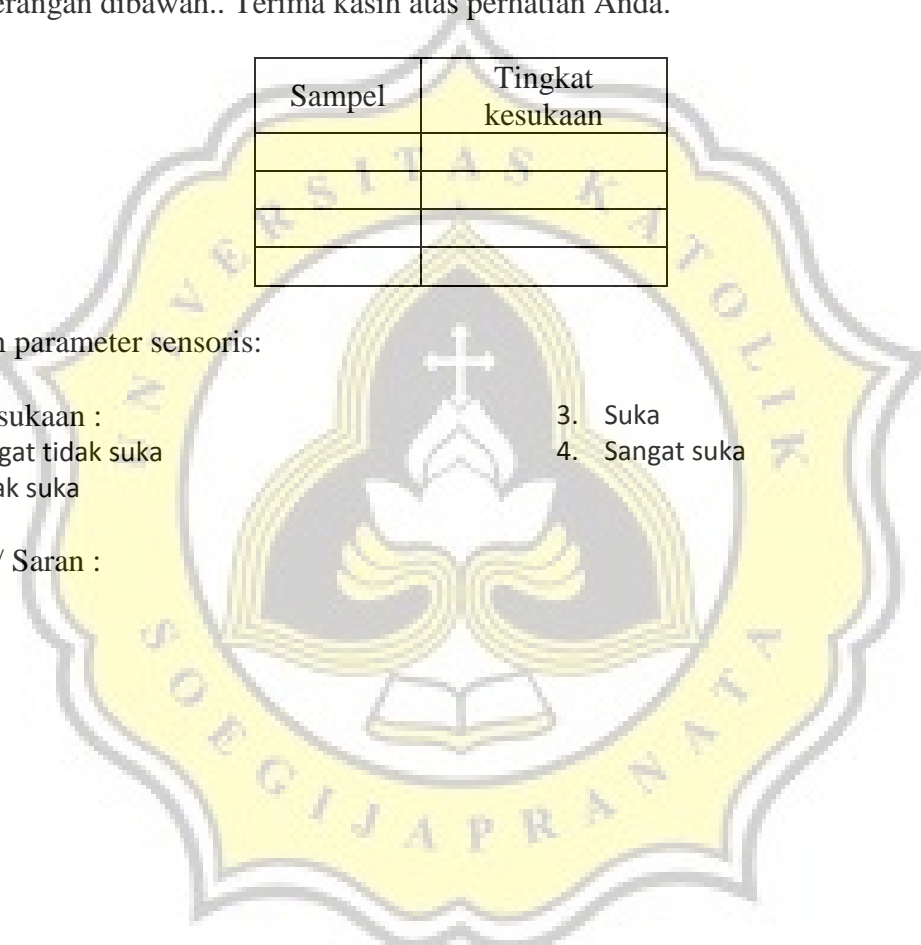
Keterangan parameter sensoris:

Tingkat kesukaan :

1. Sangat tidak suka
2. Tidak suka

3. Suka
4. Sangat suka

Komentar / Saran :



**UJI HEDONIK ES KRIM EKSTRUDAT  
BERAS MERAH**

Nama :  
Umur :  
Tanggal pengujian :  
Instruksi :

Di hadapan Anda telah tersedia 4 sampel es krim. Sebelum Anda mencicipi tiap sampel minumlah air putih terlebih dahulu. Rasakanlah tiap sampel dari kiri ke kanan. Setelah mencicipi tiap sampel, Anda dapat memberikan penilaian atas dasar *CREAMINESS* (kuat atau tidaknya rasa es krim berkaitan dengan lemak) dengan menggunakan skala rating (boleh ada yang dobel). Berilah skor dari (1) sampai (4) dimana penilaian berdasarkan **TINGKAT KESUKAAN** seperti keterangan dibawah.. Terima kasih atas perhatian Anda.

Sampel	Tingkat kesukaan

Keterangan parameter sensoris:

Tingkat kesukaan :

1. Sangat tidak suka
2. Tidak suka

3. Suka
4. Sangat suka

Komentar / Saran :



**UJI HEDONIK ES KRIM EKSTRUDAT  
BERAS MERAH**

Nama :  
Umur :  
Tanggal pengujian :  
Instruksi :

Di hadapan Anda telah tersedia 4 sampel es krim. Sebelum Anda mencicipi tiap sampel minumlah air putih terlebih dahulu. Rasakanlah tiap sampel dari kiri ke kanan. Setelah mencicipi tiap sampel berilah skor dari (1) sampai (4) dimana penilaian berdasarkan keterangan dibawah. Anda memberikan penilaian terhadap es krim tersebut berdasarkan *Overall* Anda dengan menggunakan skala rating (boleh ada yang dobel). Terima kasih atas perhatian Anda.

Sampel	Overall

Keterangan parameter sensoris:  
Overall :

1. Sangat tidak suka
2. Tidak suka
3. Suka
4. Sangat suka

Komentar / Saran :

