7.   LAMPIRAN

Lampiran 1. *Score sheet* **Es Krim** *Soyaloe*

UJI RATING HEDONIK

Nama Panelis :   Tanggal :

Produk   : Es Krim Lidah Buaya   No HP/ Line ID:

Instruksi:

Berkumur-kumurlah sebelum melakukan pengujian sampel.

Dihadapan Anda terdapat 4 sampel Es Krim Lidah Buaya. Cicipi sampel secara berurutan dari kiri ke kanan, rasakan masing-masing. Setelah mencicipi semua sampel, Anda boleh mengulang sesering yang Anda perlukan. berikan penilaian dari yang paling Anda sangat tidak suka (=1), tidak suka (=2), agak suka (=3), suka (=4) dan sangat suka (=5)

Atribut	Kode			
Tekstur				
Rasa				
Overall				

Lampiran 2. Hasil analisa Penentuan Konsentrasi Jus Lidah Buaya Pada Es Krim *Soyaloe* **SPSS**

a.   **Uji Kruskall Wallis**

   - Uji Beda Nyata/Tidak

Test Statistics[a,b]

	Teksur	Rasa	Overall
Chi-Square	12.712	9.055	13.158
df	3	3	3
Asymp. Sig.	.005	.029	.004

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

b. **Uji Mann Whitney**

- Konsentrasi 40%-55%

Test Statistics[a]

	Teksur	Rasa	Overall
Mann-Whitney U	388.500	361.000	411.500
Wilcoxon W	853.500	826.000	876.500
Z	-.941	-1.392	-.591
Asymp. Sig. (2-tailed)	.347	.164	.554

a. Grouping Variable: Perlakuan

- Konsentrasi 40%-70%

Test Statistics[a]

	Teksur	Rasa	Overall
Mann-Whitney U	344.000	343.000	307.000
Wilcoxon W	809.000	808.000	772.000
Z	-1.618	-1.661	-2.198
Asymp. Sig. (2-tailed)	.106	.097	.028

a. Grouping Variable: Perlakuan

- Konsentrasi 40%-85%

Test Statistics[a]

	Teksur	Rasa	Overall
Mann-Whitney U	330.500	384.500	392.500
Wilcoxon W	795.500	849.500	857.500
Z	-1.830	-1.029	-.885
Asymp. Sig. (2-tailed)	.067	.303	.376

a. Grouping Variable: Perlakuan

- Konsentrasi 55%-70%

Test Statistics[a]

	Teksur	Rasa	Overall
Mann-Whitney U	286.000	284.000	258.500
Wilcoxon W	751.000	749.000	723.500
Z	-2.498	-2.545	-2.937
Asymp. Sig. (2-tailed)	.013	.011	.003

a. Grouping Variable: Perlakuan

- Konsentrasi 55%-85%

Test Statisticsª

	Teksur	Rasa	Overall
Mann-Whitney U	379.500	434.000	436.500
Wilcoxon W	844.500	899.000	901.500
Z	-1.087	-.248	-.209
Asymp. Sig. (2-tailed)	.277	.804	.834

a. Grouping Variable: Perlakuan

- Konsentrasi 70%-85%

Test Statisticsª

	Teksur	Rasa	Overall
Mann-Whitney U	232.000	295.000	228.500
Wilcoxon W	697.000	760.000	693.500
Z	-3.318	-2.384	-3.434
Asymp. Sig. (2-tailed)	.001	.017	.001

a. Grouping Variable: Perlakuan

Lampiran 3. *Scoresheet* **Uji Hedonik Es Krim** *Soyaloe* **dengan Tepung Lokal**

UJI RATING HEDONIK

Nama Panelis :   Tanggal :

Produk   : Es Krim Lidah Buaya dengan berbagai *fat mimetics*

Instruksi:

Berkumur-kumurlah sebelum melakukan pengujian sampel.

Dihadapan Anda terdapat 5 sampel Es Krim Lidah Buaya dengan berbagai *fat mimetics*.

Cicipi sampel secara berurutan dari kiri ke kanan, rasakan masing-masing. Setelah

mencicipi semua sampel, Anda boleh mengulang sesering yang Anda perlukan. berikan

penilaian dari yang paling Anda sangat tidak suka (=1), tidak suka (=2), agak suka (=3),

suka (=4) dan sangat suka (=5)

Atribut	Kode				
Tekstur					
Rasa					
Overall					

Lampiran 4. Hasil analisa Sensori Es Krim *Soyaloe* dengan Tepung Lokal SPSS

a.   **Uji Kruskall Wallis**

- Uji Beda Nyata/Tidak

Test Statistics[a,b]

	TEKSTUR	RASA	OVERALL
Chi-Square	21.516	17.980	20.542
df	4	4	4
Asymp. Sig.	.000	.001	.000

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUAN

b.   **Uji Mann Whitney**

- Es Krim *Soyaloe* + Tepung Tapioka vs Es Krim *Soyaloe* + Tepung Sagu

Test Statistics[a]

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	381.000	306.000	329.000
Wilcoxon W	846.000	771.000	794.000
Z	-1.063	-2.233	-1.908
Asymp. Sig. (2-tailed)	.288	.026	.056

a. Grouping Variable: PERLAKUAN

- Es Krim *Soyaloe* + Tepung Tapioka vs Es Krim *Soyaloe* + Tepung Garut

Test Statistics[a]

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	365.500	428.000	438.000
Wilcoxon W	830.500	893.000	903.000
Z	-1.318	-.342	-.189
Asymp. Sig. (2-tailed)	.187	.732	.850

a. Grouping Variable: PERLAKUAN

- Es Krim *Soyaloe* + Tepung Tapioka vs Es Krim *Soyaloe* + Tepung Pati Kentang

Test Statistics[a]

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	324.000	343.500	288.500
Wilcoxon W	789.000	808.500	753.500
Z	-1.925	-1.629	-2.481
Asymp. Sig. (2-tailed)	.054	.103	.013

a. Grouping Variable: PERLAKUAN

- Es Krim *Soyaloe* + Tepung Tapioka vs Es Krim *Soyaloe* Kontrol

Test Statistics[a]

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	305.500	331.500	339.000
Wilcoxon W	770.500	796.500	804.000
Z	-2.250	-1.872	-1.762
Asymp. Sig. (2-tailed)	.024	.061	.078

a. Grouping Variable: PERLAKUAN

- Es Krim *Soyaloe* + Tepung Sagu vs Es Krim *Soyaloe* + Tepung Garut

Test Statistics[a]

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	291.000	295.000	322.000
Wilcoxon W	756.000	760.000	787.000
Z	-2.456	-2.360	-1.986
Asymp. Sig. (2-tailed)	.014	.018	.047

a. Grouping Variable: PERLAKUAN

- Es Krim *Soyaloe* + Tepung Sagu vs Es Krim *Soyaloe* + Tepung Pati Kentang

Test Statistics[a]

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	384.000	413.000	382.500
Wilcoxon W	849.000	878.000	847.500
Z	-1.015	-.564	-1.047
Asymp. Sig. (2-tailed)	.310	.573	.295

a. Grouping Variable: PERLAKUAN

- Es Krim *Soyaloe* + Tepung Sagu vs Es Krim *Soyaloe* Kontrol

Test Statistics^a

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	246.000	208.000	234.000
Wilcoxon W	711.000	673.000	699.000
Z	-3.141	-3.704	-3.356
Asymp. Sig. (2-tailed)	.002	.000	.001

a. Grouping Variable: PERLAKUAN

- Es Krim *Soyaloe* + Tepung Garut vs Es Krim *Soyaloe* + Tepung Pati Kentang

Test Statistics^a

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	239.000	335.000	275.500
Wilcoxon W	704.000	800.000	740.500
Z	-3.231	-1.750	-2.669
Asymp. Sig. (2-tailed)	.001	.080	.008

a. Grouping Variable: PERLAKUAN

- Es Krim *Soyaloe* + Tepung Garut vs Es Krim *Soyaloe* Kontrol

Test Statistics^a

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	383.000	364.000	363.500
Wilcoxon W	848.000	829.000	828.500
Z	-1.050	-1.330	-1.348
Asymp. Sig. (2-tailed)	.294	.184	.178

a. Grouping Variable: PERLAKUAN

- Es Krim *Soyaloe* + Tepung Pati Kentang vs Es Krim *Soyaloe* Kontrol

Test Statistics^a

	TEKSTUR	RASA	OVERALL
Mann-Whitney U	209.000	251.000	213.000
Wilcoxon W	674.000	716.000	678.000
Z	-3.673	-3.037	-3.624
Asymp. Sig. (2-tailed)	.000	.002	.000

a. Grouping Variable: PERLAKUAN

Lampiran 5. Hasil Analisa Uji Fisik dan Kimia Es Krim *Soyaloe* SPSS

a.   **Normalitas**

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Overrun	.121	30	.200*	.957	30	.266
Hardness	.111	30	.200*	.950	30	.171
Visko.before	.235	30	.000	.824	30	.000
Visko.After	.177	30	.017	.906	30	.012
Time.to.melt	.129	30	.200*	.951	30	.175
Kadar.amilosa	.409	30	.000	.617	30	.000
Total.padatan	.082	30	.200*	.980	30	.838
Kadar.Lemak	.320	30	.000	.678	30	.000
Melting.Rate.Menit30	.081	30	.200*	.971	30	.557

a. Lilliefors Significance Correction

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

b.   *Overrun*

Overrun

Duncan

		Subset		
Perlakuan	N	1	2	3
Es Krim + Tepung Pati Kentang	6	40.5340		
Es Krim + Tepung Sagu	6	44.8972		
Es Krim + Tepung Tapioka	6		55.9613	
Es Krim + Tepung Garut	6		58.4442	
Es Krim Kontrol	6			71.1423
Sig.		.094	.331	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 18,795.

c.   **Kekerasan**

Hardness

Duncan

		Subset			
Perlakuan	N	1	2	3	4
Es Krim Kontrol	6	1.8550			
Es Krim + Tepung Garut	6		2.4467		
Es Krim + Tepung Tapioka	6		2.5767		
Es Krim + Tepung Sagu	6			3.1533	
Es Krim + Tepung Pati Kentang	6				3.4967
Sig.		1.000	.110	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,018.

d. **Viskositas Sebelum** *freezing*

Visko.before

Duncan

Perlakuan	N	1	2	3	4
			Subset		
Es Krim Kontrol	6	17.5600			
Es Krim + Tepung Garut	6		29.8700		
Es Krim + Tepung Tapioka	6		30.5300		
Es Krim + Tepung Sagu	6			35.0700	
Es Krim + Tepung Pati Kentang	6				36.5100
Sig.		1.000	.267	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1,015.

e. **Viskositas Sesudah** *freezing*

Visko.After

Duncan

Perlakuan	N	1	2	3	4
			Subset		
Es Krim Kontrol	6	8.8000			
Es Krim + Tepung Garut	6		17.2800		
Es Krim + Tepung Tapioka	6		18.2600		
Es Krim + Tepung Sagu	6			22.6583	
Es Krim + Tepung Pati Kentang	6				25.6100
Sig.		1.000	.065	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,774.

f. *Time to melt*

Time.to.melt

Duncan

Perlakuan	N	1	2	3
			Subset	
Es Krim Kontrol	6	51.0867		
Es Krim + Tepung Garut	6		53.7800	
Es Krim + Tepung Tapioka	6		54.7100	
Es Krim + Tepung Sagu	6			56.4617
Es Krim + Tepung Pati Kentang	6			56.9567
Sig.		1.000	.187	.477

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1,410.

g. *Melting rate*

MENIT.10

Duncan

PERLAKUAN	N	Subset 1	Subset 2	Subset 3
EK+TEPUNG PATI KENTANG	6	.0193		
EK+TEPUNG SAGU	6	.0257	.0257	
EK+TEPUNG TAPIOKA	6	.0477	.0477	
EK+TEPUNG GARUT	6		.0643	
EK KONTROL	6			.1148
Sig.		.188	.075	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,001.

MENIT.15

Duncan

PERLAKUAN	N	Subset 1	Subset 2	Subset 3
EK+TEPUNG PATI KENTANG	6	.1002		
EK+TEPUNG SAGU	6	.1172		
EK+TEPUNG TAPIOKA	6		.1712	
EK+TEPUNG GARUT	6		.1952	
EK KONTROL	6			.2465
Sig.		.363	.203	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,001.

MENIT.20

Duncan

PERLAKUAN	N	Subset 1	Subset 2	Subset 3
EK+TEPUNG PATI KENTANG	6	.2205		
EK+TEPUNG SAGU	6	.2378		
EK+TEPUNG TAPIOKA	6		.2828	
EK+TEPUNG GARUT	6		.3067	
EK KONTROL	6			.3592
Sig.		.320	.176	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,001.

MENIT.25

Duncan

PERLAKUAN	N	Subset 1	Subset 2	Subset 3
EK+TEPUNG PATI KENTANG	6	.3492		
EK+TEPUNG SAGU	6	.3612		
EK+TEPUNG TAPIOKA	6		.3993	
EK+TEPUNG GARUT	6		.4203	
EK KONTROL	6			.4627
Sig.		.455	.196	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,001.

MENIT.30

Duncan

PERLAKUAN	N	Subset 1	Subset 2	Subset 3
EK+TEPUNG PATI KENTANG	6	.4350		
EK+TEPUNG SAGU	6	.4508		
EK+TEPUNG TAPIOKA	6		.5012	
EK+TEPUNG GARUT	6		.5212	
EK KONTROL	6			.5780
Sig.		.374	.264	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,001.

h. Kadar Amilosa

Kadar.amilosa

Duncan

Perlakuan	N	Subset 1	Subset 2	Subset 3	Subset 4	Subset 5
Es Krim Kontrol	6	.0000				
Es Krim + Tepung Garut	6		32.1802			
Es Krim + Tepung Tapioka	6			33.0743		
Es Krim + Tepung Sagu	6				36.7638	
Es Krim + Tepung Pati Kentang	6					37.6772
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,070.

i. Total Padatan

Total.padatan

Duncan

		Subset		
Perlakuan	N	1	2	3
Es Krim + Tepung Pati Kentang	6	34.2265		
Es Krim + Tepung Sagu	6	34.4013		
Es Krim + Tepung Tapioka	6		34.9100	
Es Krim + Tepung Garut	6		34.9515	
Es Krim Kontrol	6			35.5207
Sig.		.408	.843	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,129.

j. Kadar Lemak

Kadar.Lemak

Duncan

		Subset		
Perlakuan	N	1	2	3
Es Krim + Tepung Pati Kentang	6	5.3275		
Es Krim + Tepung Sagu	6	5.3770		
Es Krim + Tepung Tapioka	6		5.7240	
Es Krim + Tepung Garut	6		5.8380	
Es Krim Kontrol	6			9.0700
Sig.		.728	.425	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,059.

k. Korelasi

Correlations

		KADAR.AMILOSA.TEPUNG	OVERRUN	VISKO.BEFORE	VISKO.AFTER	HARDNESS	TIME.TO.MELT	MELTING.RATE.MENIT30
KADAR.AMILOSA.TEPUNG	Pearson Correlation	1	-.816**	.962**	.909**	.813**	.806**	-.766**
	Sig. (2-tailed)		.000	.000	.000	.000	.000	.000
	N	30	30	30	30	30	30	30
OVERRUN	Pearson Correlation	-.816**	1	-.889**	-.918**	-.911**	-.822**	.825**
	Sig. (2-tailed)	.000		.000	.000	.000	.000	.000
	N	30	30	30	30	30	30	30
VISKO.BEFORE	Pearson Correlation	.962**	-.889**	1	.976**	.913**	.868**	-.839**
	Sig. (2-tailed)	.000	.000		.000	.000	.000	.000
	N	30	30	30	30	30	30	30
VISKO.AFTER	Pearson Correlation	.909**	-.918**	.976**	1	.952**	.894**	-.881**
	Sig. (2-tailed)	.000	.000	.000		.000	.000	.000
	N	30	30	30	30	30	30	30
HARDNESS	Pearson Correlation	.813**	-.911**	.913**	.952**	1	.884**	-.886**
	Sig. (2-tailed)	.000	.000	.000	.000		.000	.000
	N	30	30	30	30	30	30	30
TIME.TO.MELT	Pearson Correlation	.806**	-.822**	.868**	.894**	.884**	1	-.988**
	Sig. (2-tailed)	.000	.000	.000	.000	.000		.000
	N	30	30	30	30	30	30	30
MELTING.RATE.MENIT30	Pearson Correlation	-.766**	.825**	-.839**	-.881**	-.886**	-.988**	1
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	
	N	30	30	30	30	30	30	30

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

Lampiran 6. Daftar Tabel Kandungan Gizi

a.   Kandungan gizi lidah buaya per 100 gram

Zat Gizi	Kandungan per 100 gram bahan
Energi (kal)	1,73-2,30
Protein (g)	0,01-0,06
Lemak (g)	0,05-0,09
Karbohidrat	0,30
Kadar air (g)	99,5
Kalsium (mg)	9,92-19,92
Besi (mg)	0,06-0,32
Vitamin A (IU)	2,00-4,20
Vitamin C (mg)	0,50-4,20
Thiamin (mg)	0,003-0,004
Riboflavin (mg)	0,001-0,002
Niasin (mg)	0,038-0,040

(Morsy, 1991 dalam Pramadisastra *et al.*, 2003)

b.   Kandungan gizi sari kedelai per 100 gram

Zat gizi	Kandungan per 100 gram bahan
Energi (kJ)	138,00
Air (g)	93,00
Protein (g)	2,80
Lemak (g)	2,00
Karbohidrat (g)	1,80
Serat (g)	0,27
Kalsium (mg)	4,00
Fosfor (mg)	49,00
Besi (mg)	0,58
Vitamin A (µg)	3,00
Vitamin B_1 (µg)	0,161

(Giri & Mangaraj, 2012).

c. **Kandungan Gizi Tepung Tapioka per 100 gram**

Komponen	Jumlah
Karbohidrat (%)	88,2
Protein (%)	1,1
Lemak (%)	0,5
Energi (kalori/100 gram)	363
Air (%)	9

(Auliah, 2012).

d. **Kandungan Gizi Tepung Sagu per 100 gram**

Komponen	Jumlah
Karbohidrat (%)	94
Protein (%)	0,2
Lemak (%)	0,2
Energi (kalori/100 gram)	355
Air (%)	14

(Auliah, 2012).

e. **Kandungan Gizi Tepung Garut per 100 gram**

Komponen	Jumlah
Karbohidrat (%)	86,67
Protein (%)	0,06
Lemak (%)	0,88
Air (%)	9,82

(Raja, 2000).

f. **Kandungan Gizi Tepung Pati Kentang per 100 gram**

Komponen	Jumlah
Karbohidrat (%)	79.9
Protein (%)	8
Lemak (%)	0.1

(Willard & Hix dalam Avula, 2005).

g. Komposisi Amilosa Tepung Lokal

Jenis tepung	Kadar amilosa	Kadar amilopektin
Tepung tapioka	17	83
Tepung sagu	27,4	72,6
Tepung garut	29,03-31,34	68,66-70,97
Tepung Pati Kentang	21	79

(BeMiller, 2009; Richana, 2000 dalam Winarti *et al*., 2014).

Lampiran 7. Plagscan

PlagScan | PRO

Filename:
Kriswanto_Monica_Andreina_PENGARUH_PENAMBAHAN_TEPUNG_LOKAL_SEBAGAI_FAT_MIMETICS_BERBASIS_KARBOHIDRAT_PADA_ES_KR

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