

7. LAMPIRAN

Lampiran 1. Pengujian Normalitas

7.1.1. Pengujian Normalitas *Fresh*

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Overrun	,414	9	,000	,617	9	,000
Time_To_Melt	,214	9	,200*	,890	9	,199
Melting_Rate	,217	9	,200*	,842	9	,060
Kadar_Air	,226	9	,200*	,850	9	,075
Total_Padatan	,226	9	,200*	,850	9	,075
Kadar_Lemak	,255	9	,093	,880	9	,157

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

a. Lilliefors Significance Correction

7.1.2. Pengujian Normalitas Penyimpanan 7 hari

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Overrun	,471	9	,000	,536	9	,000
Time_To_Melt	,334	9	,005	,739	9	,004
Melting_Rate	,179	9	,200*	,900	9	,251
Kadar_Air	,138	9	,200*	,968	9	,873
Total_Padatan	,160	9	,200*	,933	9	,508
Kadar_Lemak	,268	9	,062	,860	9	,095

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

a. Lilliefors Significance Correction

Lampiran 2. Pengujian One Way Anova

7.2.1. Pengujian One Way Anova *Fresh*

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Time_To_Melt	4,019	2	6	,078
Melting_Rate	6,171	2	6	,035
Kadar_Air	4,863	2	6	,056
Total_Padatan	4,863	2	6	,056
Kadar_Lemak	1,451	2	6	,306

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Time_To_Melt	Between Groups	5,383	2	2,692	15,571	,004
	Within Groups	1,037	6	,173		
	Total	6,421	8			
Melting_Rate	Between Groups	,803	2	,402	182,566	,000
	Within Groups	,013	6	,002		
	Total	,816	8			
Kadar_Air	Between Groups	2,200	2	1,100	3,810	,085
	Within Groups	1,732	6	,289		
	Total	3,932	8			
Total_Padatan	Between Groups	2,200	2	1,100	3,810	,085
	Within Groups	1,732	6	,289		
	Total	3,932	8			
Kadar_Lemak	Between Groups	4,028	2	2,014	,143	,869
	Within Groups	84,361	6	14,060		
	Total	88,389	8			

7.2.1.1. *Time to melt*

Time_To_Melt

Duncan

usu	N	Subset for alpha = 0.05	
		1	2
Skim	3	11,1733	
Low Fat	3		12,6767
Full Cream	3		12,9233
Sig.		1,000	,495

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Perlakuan	Nilai
Full Cream	12,9233 ^b
Low Fat	12,6767 ^b
Skim	11,1733 ^a

7.2.1.2. Melting Rate

Melting_Rate

Duncan

Susu	N	Subset for alpha = 0.05		
		1	2	3
Skim	3	,7367		
Low Fat	3		,9833	
Full Cream	3			1,4567
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Perlakuan	Nilai
Full Cream	1,4567 ^c
Low Fat	0,9833 ^b
Skim	0,7367 ^a

7.2.1.3. Kadar Air

Kadar_Air

Duncan

Susu	N	Subset for alpha = 0.05	
		1	2
Full Cream	3	61,4867	
Low Fat	3	62,3833	62,3833
Skim	3		62,6400
Sig.		,087	,580

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Perlakuan	Nilai
Full Cream	61,4867 ^a
Low Fat	62,3833 ^{ab}
Skim	62,6400 ^b

7.2.1.4. Total Padatan

Total_Padatan

Duncan

Susu	N	Subset for alpha = 0.05	
		1	2
Skim	3	37,3600	
Low Fat	3	37,6167	37,6167
Full Cream	3		38,5133
Sig.		,580	,087

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Perlakuan	Nilai
Full Cream	38,5133 ^b
Low Fat	37,6167 ^{ab}
Skim	37,3600 ^a

7.2.1.5. Kadar Lemak

Kadar_Lemak

Duncan

Susu	N	Subset for alpha = 0.05
		1
Low Fat	3	19,8790
Skim	3	20,5567
Full Cream	3	21,5100
Sig.		,624

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Perlakuan	Nilai
Full Cream	21,5100 ^a
Low Fat	19,8790 ^a
Skim	20,5567 ^a

7.2.2. Pengujian One Way Anova Penyimpanan 7 Hari

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Melting_Rate	,818	2	6	,485
Kadar_Air	,332	2	6	,730
Total_Padatan	,239	2	6	,794
Kadar_Lemak	5,598	2	6	,042

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Melting_Rate	Between Groups	,238	2	,119	21,067	,002
	Within Groups	,034	6	,006		
	Total	,272	8			
Kadar_Air	Between Groups	18,279	2	9,140	5,169	,050
	Within Groups	10,609	6	1,768		
	Total	28,888	8			
Total_Padatan	Between Groups	18,236	2	9,118	3,844	,084
	Within Groups	14,232	6	2,372		
	Total	32,468	8			
Kadar_Lemak	Between Groups	45,876	2	22,938	2,939	,129
	Within Groups	46,829	6	7,805		
	Total	92,705	8			

7.2.2.1. Melting rate

Melting_Rate

Duncan

Susu	N	Subset for alpha = 0.05	
		1	2
full cream	3	,6967	
low fat	3		1,0100
Skim	3		1,0667
Sig.		1,000	,392

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Perlakuan	Nilai
Full Cream	0,6967 ^a
Low Fat	1,0100 ^b
Skim	1,0667 ^b

7.2.2.2. Kadar Air

Kadar_Air

Duncan

Susu	N	Subset for alpha = 0.05	
		1	2
full cream	3	59,6267	
Skim	3	61,9900	61,9900
low fat	3		63,0333
Sig.		,072	,374

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Perlakuan	Nilai
Full Cream	59,6267 ^a
Low Fat	63,0333 ^b
Skim	61,9900 ^{ab}

7.2.2.3. Total Padatan

Total_Padatan

Duncan

Susu	N	Subset for alpha = 0.05	
		1	2
low fat	3	36,9667	
Skim	3	39,3133	39,3133
full cream	3		40,3733
Sig.		,111	,432

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Perlakuan	Nilai
Full Cream	40,3733 ^b
Low Fat	36,9667 ^a
Skim	39,3133 ^{ab}

7.2.2.4. Kadar Lemak

Kadar_Lemak

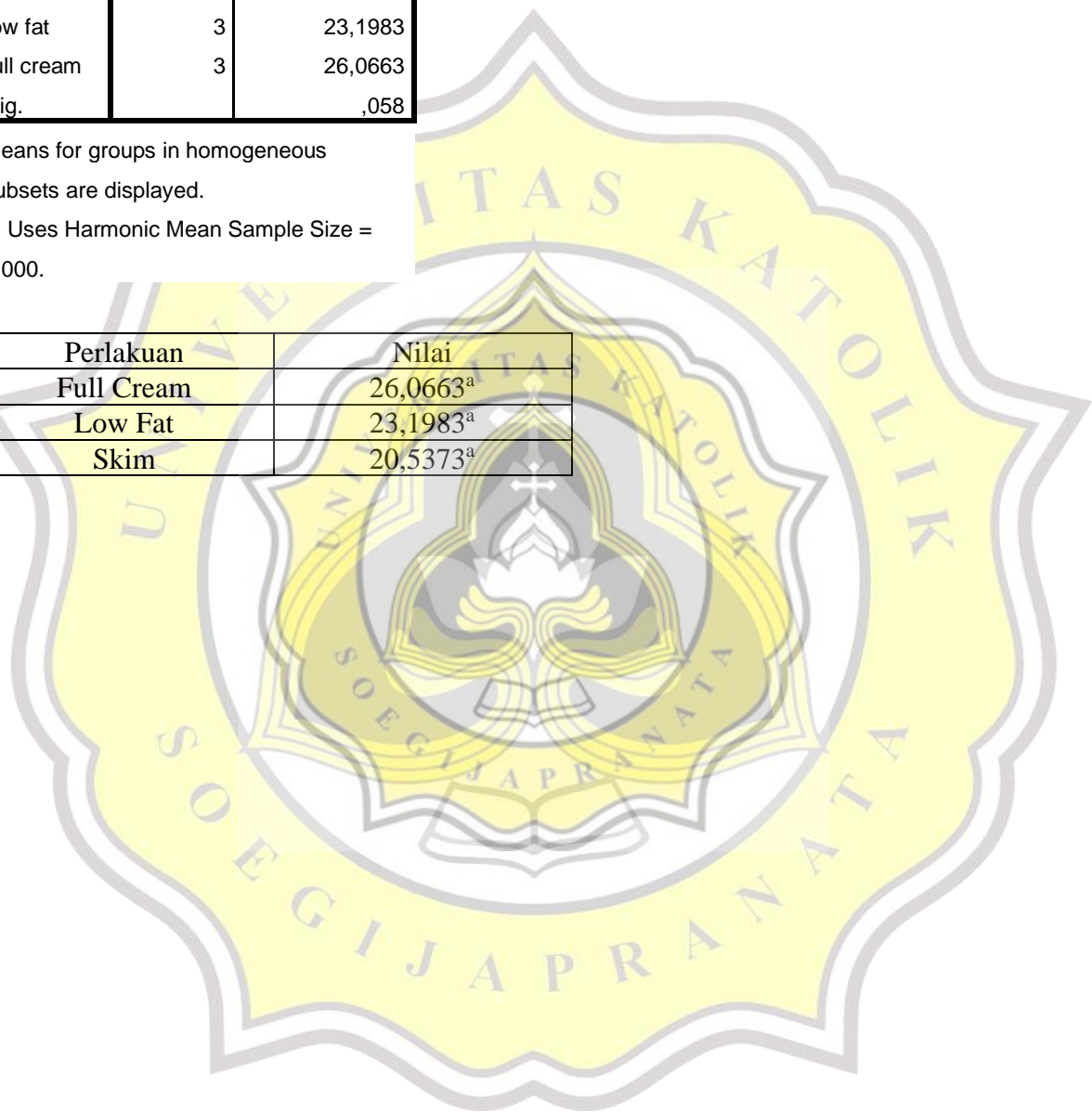
Duncan

Susu	N	Subset for alpha = 0.05
		1
Skim	3	20,5373
low fat	3	23,1983
full cream	3	26,0663
Sig.		,058

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Perlakuan	Nilai
Full Cream	26,0663 ^a
Low Fat	23,1983 ^a
Skim	20,5373 ^a



Lampiran 3. Pengujian Organoleptik

7.3.1. Pengujian Organoleptik *Fresh*

7.3.1.1. Pengujian Normalitas

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	Df	Sig.
Overall	,211	90	,000	,902	90	,000
Rasa	,231	90	,000	,896	90	,000
Warna	,308	90	,000	,835	90	,000
Aroma	,255	90	,000	,870	90	,000
Tekstur	,229	90	,000	,901	90	,000

a. Lilliefors Significance Correction

7.3.1.2. Pengujian Kruskal-Wallis Test

7.3.1.2.1. Full Cream vs Low Fat

	Overall	Rasa	Warna	Aroma	Tekstur
Chi-Square	,779	,142	,124	1,472	1,086
df	1	1	1	1	1
Asymp. Sig.	,378	,707	,724	,225	,297

a. Kruskal Wallis Test

b. Grouping Variable: Produk

7.3.1.2.2. Full Cream vs Skimmed

	Overall	Rasa	Warna	Aroma	Tekstur
Chi-Square	1,300	,675	1,014	1,436	1,517
df	2	2	2	2	2
Asymp. Sig.	,522	,714	,602	,488	,468

a. Kruskal Wallis Test

b. Grouping Variable: Produk

7.3.2. Pengujian Organoleptik Penyimpanan 7 hari

7.3.2.1. Pengujian Normalitas

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
Overall	,201	90	,000	,900	90	,000
Rasa	,223	90	,000	,903	90	,000
Warna	,216	90	,000	,891	90	,000
Aroma	,339	90	,000	,804	90	,000
Tekstur	,221	90	,000	,886	90	,000

a. Lilliefors Significance Correction

7.3.2.2. Pengujian Kruskal-Wallis Test

7.3.2.2.1. Full Cream vs Low Fat

	Overall	Rasa	Warna	Aroma	Tekstur
Chi-Square	6,185	8,178	,630	2,118	16,695
df	1	1	1	1	1
Asymp. Sig.	,013	,004	,427	,146	,000

a. Kruskal Wallis Test

b. Grouping Variable: Produk

7.3.2.2.2. Full Cream vs Skimmed

	Overall	Rasa	Warna	Aroma	Tekstur
Chi-Square	6,836	8,177	,909	2,830	18,084
df	2	2	2	2	2
Asymp. Sig.	,033	,017	,635	,243	,000

a. Kruskal Wallis Test

b. Grouping Variable: Produk

7.3.2.3. Pengujian Mann Whitney

7.3.2.3.1. Full Cream vs Low Fat

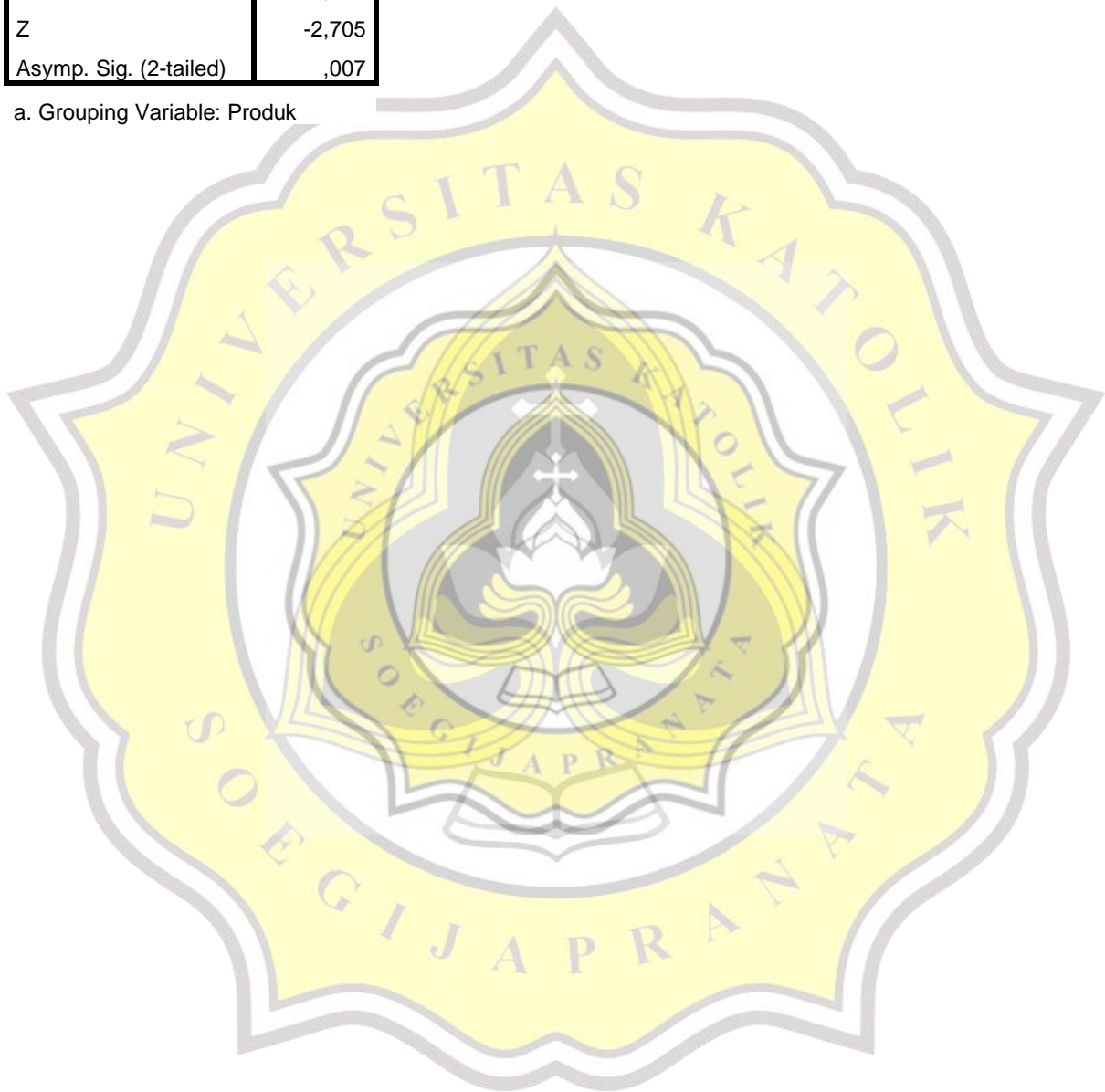
	Rasa	Tekstur
Mann-Whitney U	264,500	183,000
Wilcoxon W	729,500	648,000
Z	-2,860	-4,086
Asymp. Sig. (2-tailed)	,004	,000

a. Grouping Variable: Produk

7.3.2.3.2. *Full Cream vs Skimmed*

Test Statistics ^a	
	Tekstur
Mann-Whitney U	273,000
Wilcoxon W	738,000
Z	-2,705
Asymp. Sig. (2-tailed)	,007

a. Grouping Variable: Produk



Lampiran 4. Nutrition Facts dan Bahan yang Digunakan pada Penelitian ini



(a)

INFORMASI NILAI GIZI / NUTRITION FACTS		250ml
Takaran Saji / Serving Size		4
Jumlah Sajian Per Kemasan / Servings Per Package		
JUMLAH PER SAJIAN / AMOUNT PER SERVING		
Energy Total / Total Calories	160kcal / kcal	
Energy dari Lemak / Calories from Fat	80kcal / kcal	
Lemak Total / Total Fat	9g	14%
Lemak Jenuh / Saturated Fat	6g	30%
Lemak Trans / Trans Fat	0g	
Kolesterol / Cholesterol	20mg	7%
Protein	8g	13%
Karbohidrat Total / Total Carbohydrate	12g	4%
Serat Pangan / Dietary Fibre	0g	0%
Gula Total / Total Sugars	12g	
Sukrosa / Sucrose	0g	
Laktosa / Lactose	12g	
Natrium / Sodium	80mg	6%
Kalsium / Potassium	300mg	6%
Vitamin A	20%	
Vitamin B1	8%	
Vitamin B2	30%	
Kalsium / Calcium	20%	
Fosfor / Phosphorus	30%	
Magnesium	8%	
Seng / Zinc	8%	
Kolin / Choline	10%	

% ARG berdasarkan kebutuhan energi 2150 kkal. Kebutuhan energi anda mungkin lebih tinggi atau lebih rendah.
% Daily Values are based on a diet of 2,150 calorie diet. Your daily values may be higher or lower depending on your calorie needs.

Komposisi: Susu Sapi Segar
Ingredients: Fresh Milk

Petunjuk Penyimpanan: Setelah dibuka, simpan dibawahi suhu 4°C. Sebaiknya dikonsumsi dalam waktu 4 hari.
Storage instructions: Keep refrigerated at 4°C or less after opening. Best consumed within 4 days after opening.

(b)



(c)

INFORMASI NILAI GIZI / NUTRITION FACTS		250ml
Takaran Saji / Serving Size		4
Jumlah Sajian Per Kemasan / Servings Per Package		
JUMLAH PER SAJIAN / AMOUNT PER SERVING		
Energy Total / Total Calories	110kcal / kcal	
Energy dari Lemak / Calories from Fat	23kcal / kcal	
Lemak Total / Total Fat	2g	4%
Lemak Jenuh / Saturated Fat	2g	10%
Lemak Trans / Trans Fat	0g	
Kolesterol / Cholesterol	5g	14%
Protein	12g	4%
Karbohidrat Total / Total Carbohydrate	12g	0%
Serat Pangan / Dietary Fibre	0g	0%
Gula Total / Total Sugars	12g	
Sukrosa / Sucrose	0g	
Laktosa / Lactose	12g	
Natrium / Sodium	95mg	6%
Kalsium / Potassium	300mg	7%
Vitamin A	6%	
Vitamin B1	30%	
Vitamin B2	25%	
Kalsium / Calcium	8%	
Fosfor / Phosphorus	8%	
Magnesium	8%	
Seng / Zinc	8%	
Kolin / Choline	10%	

% ARG berdasarkan kebutuhan energi 2150 kkal. Kebutuhan energi anda mungkin lebih tinggi atau lebih rendah.
% Daily Values are based on a diet of 2,150 calorie diet. Your daily values may be higher or lower depending on your calorie needs.

Komposisi: Susu Sapi Segar
Ingredients: Fresh Milk

Petunjuk Penyimpanan: Setelah dibuka, simpan dibawahi suhu 4°C. Sebaiknya dikonsumsi dalam waktu 4 hari.
Storage instructions: Keep refrigerated at 4°C or less after opening. Best consumed within 4 days after opening.

(d)



(e)

INFORMASI NILAI GIZI / NUTRITION FACTS		250ml
Takaran Saji / Serving Size		5
Jumlah Sajian Per Kemasan / Servings Per Package		
JUMLAH PER SAJIAN / AMOUNT PER SERVING		
Energy Total / Total Calories	80kcal / kcal	
Energy dari Lemak / Calories from Fat	0kcal / kcal	
Lemak Total / Total Fat	0g	0%
Lemak Jenuh / Saturated Fat	0g	0%
Lemak Trans / Trans Fat	0g	
Kolesterol / Cholesterol	5mg	1%
Protein	6g	11%
Karbohidrat Total / Total Carbohydrate	6g	2%
Serat Pangan / Dietary Fibre	0g	0%
Gula Total / Total Sugars	9g	
Sukrosa / Sucrose	0g	
Laktosa / Lactose	9g	
Natrium / Sodium	70mg	5%
Kalsium / Potassium	240mg	5%
Vitamin B1	6%	
Vitamin B2	20%	
Kalsium / Calcium	20%	
Fosfor / Phosphorus	6%	
Magnesium	6%	
Seng / Zinc	6%	

% ARG berdasarkan kebutuhan energi 2150 kkal. Kebutuhan energi anda mungkin lebih tinggi atau lebih rendah.
% Daily Values are based on a diet of 2,150 calorie diet. Your daily values may be higher or lower depending on your calorie needs.

Komposisi: Susu Sapi Segar
Ingredients: Fresh Milk

Petunjuk Penyimpanan: Setelah disimpan pada suhu 0 - 4°C. Sebaiknya dibuka, sebaiknya dikonsumsi dalam waktu 4 hari.
Storage instructions: Keep refrigerated at 0 - 4°C at all times. Best consumed within 4 days after opening.

(f)



(g)

NUTRITION INFORMATION	
Per 100g or 100ml	
PER 100g	
PER 100ml	
Energy	370 kJ (88 kcal)
Total Fat	36g
Carbohydrate	0g
Protein	3.2g

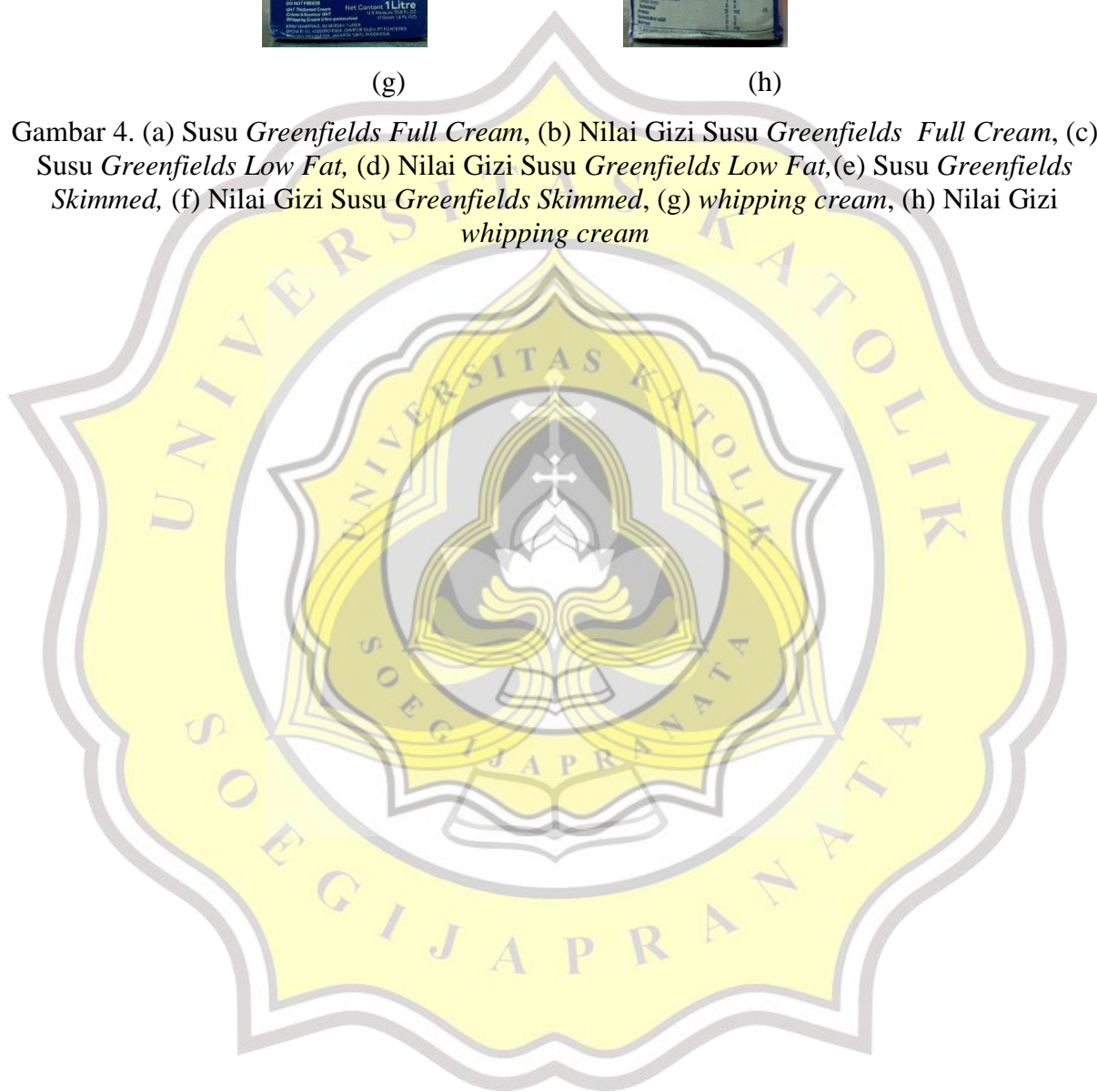
ANCHOR WHIPPING CREAM
 Contains 2% or less moisture stabilizers and natural vanilla flavor.
 EXPORTED BY: EUNITE PAB (Pty) Ltd, Singapore
 SINGAPORE IMPORTER:
 EUNITE PAB (Pty) Ltd, 100, Cross Street, Singapore
 048618
 © 2015 Anchor Brand, a Division of Unilever
 All rights reserved.

INFORMASI NILAI GIZI - INDONESIA
 Per 100g atau 100ml

PER 100g	
PER 100ml	
Energi	370 kJ (88 kkal)
Lemak Total	36g
Karbohidrat	0g
Protein	3.2g

(h)

Gambar 4. (a) Susu *Greenfields Full Cream*, (b) Nilai Gizi Susu *Greenfields Full Cream*, (c) Susu *Greenfields Low Fat*, (d) Nilai Gizi Susu *Greenfields Low Fat*, (e) Susu *Greenfields Skimmed*, (f) Nilai Gizi Susu *Greenfields Skimmed*, (g) *whipping cream*, (h) Nilai Gizi *whipping cream*



Lampiran 5. Produk Minuman Kencur



(a)

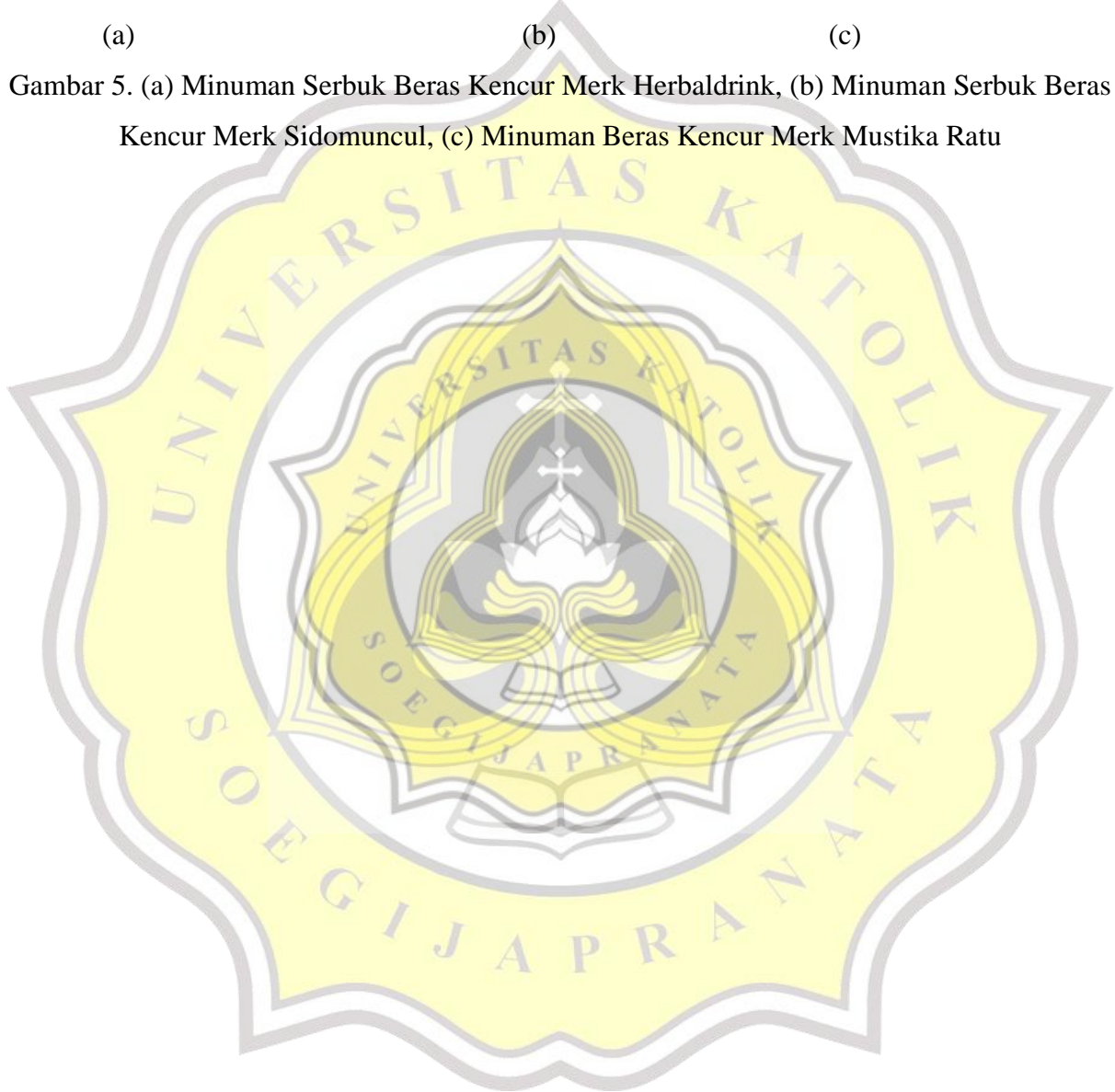


(b)



(c)

Gambar 5. (a) Minuman Serbuk Beras Kencur Merk Herbadrink, (b) Minuman Serbuk Beras Kencur Merk Sidomuncul, (c) Minuman Beras Kencur Merk Mustika Ratu



Lampiran 6. Worksheet Uji Sensori Es Krim Oleoresin Kencur

Worksheet Uji Sensori Ice Cream Herbal

Tanggal Uji :

Jenis Sampel : Ice cream

Identifikasi Sampel	Kode
Ice cream	A
Ice cream	B
Ice cream	C

Kode kombinasi urutan penyajian:

ABC = 1

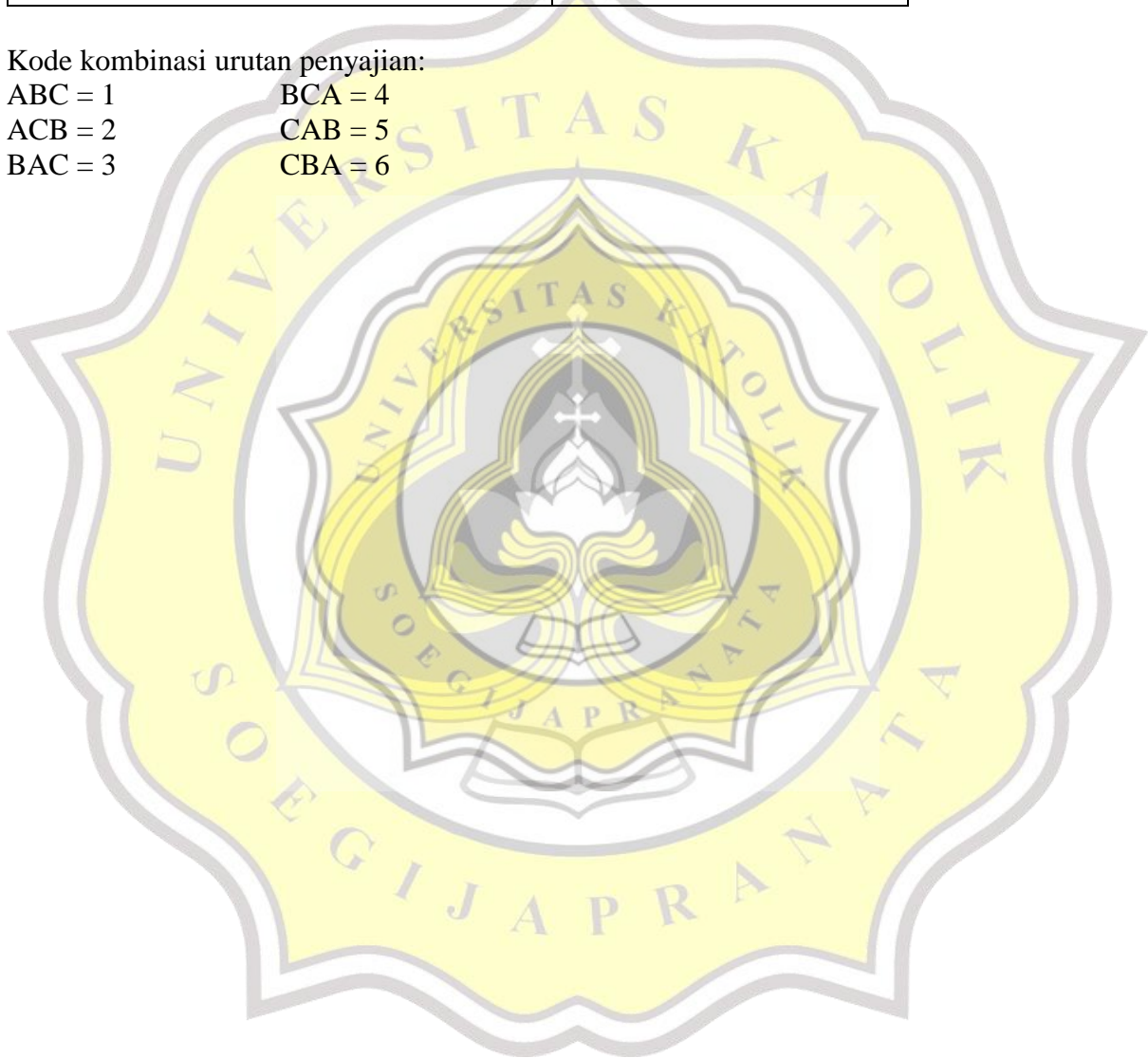
BCA = 4

ACB = 2

CAB = 5

BAC = 3

CBA = 6



Penyajian: sebanyak 5 booth

BOOTH	PANELIS	KODE SAMPEL			URUTAN KOMBINASI
I	1	012 ^a	847 ^b	799 ^c	1 (ABC)
III	2	212 ^a	839 ^c	169 ^b	2 (ACB)
III	3	219 ^b	345 ^a	111 ^c	3 (BAC)
IV	4	333 ^b	217 ^c	462 ^a	4 (BCA)
V	5	306 ^c	540 ^a	405 ^b	5 (CAB)
I	6	486 ^c	536 ^b	631 ^a	6 (CBA)
II	7	777 ^a	669 ^b	580 ^c	1 (ABC)
III	8	811 ^a	674 ^c	785 ^b	2 (ACB)
IV	9	810 ^b	005 ^a	727 ^c	3 (BAC)
V	10	141 ^b	806 ^c	239 ^a	4 (BCA)
I	11	103 ^c	377 ^a	285 ^b	5 (CAB)
III	12	236 ^c	312 ^b	432 ^a	6 (CBA)
III	13	598 ^a	475 ^b	315 ^c	1 (ABC)
IV	14	692 ^a	448 ^c	519 ^b	2 (ACB)
V	15	694 ^b	733 ^a	551 ^c	3 (BAC)
I	16	766 ^b	639 ^c	824 ^a	4 (BCA)
II	17	740 ^c	051 ^a	889 ^b	5 (CAB)
III	18	827 ^c	181 ^b	269 ^a	6 (CBA)
IV	19	393 ^a	271 ^b	124 ^c	1 (ABC)
V	20	420 ^a	215 ^c	344 ^b	2 (ACB)
I	21	488 ^b	576 ^a	341 ^c	3 (BAC)
III	22	583 ^b	439 ^c	640 ^a	4 (BCA)
III	23	603 ^c	704 ^a	627 ^b	5 (CAB)
IV	24	782 ^c	729 ^b	888 ^a	6 (CBA)
V	25	181 ^a	872 ^b	808 ^c	1 (ABC)
I	26	243 ^a	188 ^c	192 ^b	2 (ACB)
II	27	225 ^b	348 ^a	293 ^c	3 (BAC)
III	28	324 ^b	352 ^c	496 ^a	4 (BCA)
IV	29	528 ^c	517 ^a	457 ^b	5 (CAB)
V	30	661 ^c	737 ^b	698 ^a	6 (CBA)

Rekap Kode Sampel

Sam pel	Kode
A	012,212,345,462,540,631,777,811,005,239,377,432,598,692,733,824,051,269,393,420,576,640,704,888,181,243,348,496,517,698.
B	737,847,169,219,333,405,536,669,785,810,141,285,312,475,519,694,766,889,181,271,344,488,583,627,729,872,192,225,324,457.
C	528,661,799,839,111,217,306,486,580,674,727,806,103,236,315,448,551,639,740,827,124,215,341,439,603,782,808,188,293,352.

Lampiran 7. Kuisisioner Es Krim Herbal

Ice Cream Herbal

Nama/NIM :

Tanggal :

Tester number :

Session code :

No HP/line :

Di hadapan Anda tersedia 3 sampel *ice cream* dengan formulasi yang berbeda. Anda diminta untuk mencicipi sampel secara urut dari kiri ke kanan, kemudian berilah penilaian berdasarkan **overall**, **rasa**, **warna**, **aroma**, **tekstur** pada setiap sampel berdasarkan skala berikut ini:

1: sangat tidak suka, 2: tidak suka, 3: netral, 4: suka, 5: sangat suka.

Skor yang diberikan boleh sama.

Sebelum mencicipi sampel, terlebih dahulu bilaslah mulut Anda dengan air mineral yang telah disediakan untuk menetralkan rasa. Bilas kembali mulut Anda dengan air mineral saat akan mencicipi sampel yang lain.

No.	Kode Sampel	<i>Overall</i>	Rasa	Warna	Aroma	Tekstur
1						
2						
3						



8.46% PLAGIARISM
APPROXIMATELY

Report #10290234

PENDAHULUAN Latar Belakang Indonesia memiliki keanekaragaman hayati sebagai obat tradisional. Jamu adalah salah satu jenis obat tradisional asli Indonesia yang dikenal oleh masyarakat, salah satu jenis obat tradisional yaitu kencur. Kebiasaan minum jamu sudah menjadi budaya bangsa Indonesia sejak dahulu kala. Selama ini menyediakan jamu dalam bentuk siap minum dan serbuk. Dengan perkembangan teknologi yang diikuti perubahan gaya hidup manusia yang menuntut segala sesuatu serba cepat, menarik dan enak maka dilakukan pengembangan dan inovasi baru dari jamu yaitu es krim herbal minyak oleoresin kencur.

32 Es krim herbal minyak oleoresin kencur merupakan salah satu produk minuman beku yang dibuat dari bahan krim yang dicampurkan dengan minyak oleoresin kencur kemudian dibekukan (Maskuri, 2002). Kencur (*Kaempferia galanga* L) merupakan salah satu dari lima jenis tumbuhan yang dikembangkan sebagai tanaman obat. **E1** Kencur mengandung minyak atsiri yang digunakan sebagai obat tradisional untuk mengurangi peradangan, obat batuk, gatal-gatal pada tenggorokan, perut kembung, mual, masuk angin, pegal, bengkak dan memberi nafsu makan (Erlina et al, 2007). Mengelolah kencur menjadi es krim herbal minyak oleoresin kencur yang sehat dan bergizi diharapkan dapat meningkatkan minat masyarakat terhadap jamu dan melestarikan budaya bangsa