

7. LAMPIRAN

Lampiran 1. Tabel Deskriptif Statistik Uji Pendahuluan

Descriptives

protein

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1:10	6	.5016	.01914	.00782	.4815	.5217	.48	.53
1:9	6	.6390	.01685	.00688	.6213	.6567	.61	.66
1:8	6	.7912	.01820	.00743	.7721	.8103	.76	.82
1:7	6	.9284	.02748	.01122	.8995	.9572	.89	.97
1:6	6	1.0961	.01857	.00758	1.0766	1.1156	1.07	1.12
1:5	6	1.3116	.02111	.00862	1.2895	1.3338	1.29	1.35
1:4	6	1.5819	.05292	.02161	1.5263	1.6374	1.52	1.65
1:3	6	1.8677	.11108	.04535	1.7512	1.9843	1.76	2.06
1:2	6	2.2909	.03557	.01452	2.2536	2.3282	2.24	2.33
1:1	6	2.6509	.03944	.01610	2.6095	2.6922	2.58	2.69
Total	60	1.3659	.69099	.08921	1.1874	1.5444	.48	2.69

Lampiran 2. Tabel Anova Uji Pendahuluan

ANOVA

protein

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	28.068	9	3.119	1522.280	.000
Within Groups	.102	50	.002		
Total	28.171	59			

Lampiran 3. Tabel Post Hoc Uji Pendahuluan

protein

Duncan^a

perlakuan	N	Subset for alpha = .05									
		1	2	3	4	5	6	7	8	9	10
1:10	6	.5016									
1:9	6		.6390								
1:8	6			.7912							
1:7	6				.9284						
1:6	6					1.0961					
1:5	6						1.3116				
1:4	6							1.5819			
1:3	6								1.8677		
1:2	6									2.2909	
1:1	6										2.6509
Sig.		1.000	1.000	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 = 6.000.

Lampiran 4. Worksheet Analisa Sensoris Penelitian Utama

WORKSHEET UJI RANGKING HEDONIK

Tanggal pengujian : 3 September 2009
 Tujuan : Untuk mengetahui susu kacang merah dengan suhu pemasakan dan suhu pasteurisasi berapa yang paling disukai konsumen
 Jenis sampel : Susu Kacang Merah

Identifikasi Sampel	Kode
Susu kacang merah suhu perebusan 70 ⁰ suhu pasteurisasi 72 ⁰	A
Susu kacang merah suhu perebusan 70 ⁰ suhu pasteurisasi 88 ⁰	B
Susu kacang merah suhu perebusan 80 ⁰ suhu pasteurisasi 72 ⁰	C
Susu kacang merah suhu perebusan 80 ⁰ suhu pasteurisasi 88 ⁰	D
Susu kacang merah suhu perebusan 90 ⁰ suhu pasteurisasi 72 ⁰	E
Susu kacang merah suhu perebusan 90 ⁰ suhu pasteurisasi 88 ⁰	F

Kode Kombinasi Urutan Penyajian

1. ABCDEF	6. BCDEFA	11. CDEFBA	16. CEFABD	21. FEABCD
2. FABCDE	7. BACDEF	12. ACDEFB	17. DCEFAB	22. DFEABC
3. EFABCD	8. FBACDE	13. ABDCEF	18. BDCEFA	23. CDFEAB
4. DEFABC	9. EFBACD	14. FABDCE	19. ABCDFE	24. BCDFEA
5. CDEFAB	10. DEFBAC	15. EFABDC	20. EABCDF	25. FBCDEA

Penyajian

	Panelis		Kode sampel
1	26	51	756, 195, 564, 637, 443, 518
2	27	52	361, 644, 786, 258, 439, 875
3	28	53	122, 795, 821, 582, 314, 159
4	29	54	237, 946, 478, 663, 712, 585
5	30	55	351, 847, 295, 452, 784, 363
6	31	56	926, 452, 784, 363, 926, 519
7	32	57	638, 171, 769, 475, 357, 291
8	33	58	526, 847, 633, 184, 151, 513
9	34	59	879, 326, 725, 985, 392, 921
10	35	60	632, 313, 536, 374, 249, 533
11	36	61	787, 927, 758, 112, 215, 655
12	37	62	862, 532, 513, 165, 143, 222
13	38	63	135, 138, 848, 339, 394, 882
14	39	64	661, 116, 257, 448, 723, 539
15	40	65	415, 636, 383, 975, 915, 755
16	41	66	461, 113, 691, 757, 009, 958
17	42	67	818, 349, 286, 089, 215, 503
18	43	68	681, 188, 033, 158, 548, 199
19	44	69	908, 229, 593, 718, 896, 611
20	45	70	170, 469, 234, 014, 850, 041
21	46		801, 987, 818, 054, 107, 125

22	47		008, 453, 992, 200, 562, 154
23	48		957, 559, 005, 121, 081, 931
24	49		338, 309, 898, 050, 316, 087
25	50		368, 853, 189, 403, 300, 291

Rekap kode sampel :

Sampel A	756 644 821 663 784 519 171 633 985 249 655 862 135 116 383 757 215 199 908 469 818 200 081 087 291
Sampel B	195 786 582 712 363 926 638 847 725 374 215 222 138 257 975 009 503 681 229 234 054 562 931 338 853
Sampel C	564 258 314 585 351 452 769 184 392 533 787 532 339 723 755 461 349 033 593 014 107 154 957 309 189
Sampel D	637 439 159 237 847 784 475 151 921 632 927 513 848 448 915 958 818 188 718 850 125 008 559 316 300
Sampel E	443 875 122 946 295 363 357 513 879 313 758 165 394 539 415 113 286 158 611 170 987 992 316 300
Sampel F	518 361 795 478 452 926 291 526 326 536 112 143 882 661 636 691 089 548 896 041 801 453 005 050 368



Lampiran 5. Scoresheet Analisa Sensoris Penelitian Utama

Uji Rating Hedonik

Nama : _____ Tanggal uji: _____
 Produk : Susu Kacang Merah
 Atribut Pengujian : Rasa

Instruksi:

Di hadapan Anda terdapat 6 sampel, cicipilah sampel secara berurutan dari kiri ke kanan, rasakan masing-masing sampel (**jangan membandingkan antar sampel**). Setiap ganti sampel bilaslah lidah Anda dengan memakan agar dan meminum air putih yang telah disediakan untuk menghilangkan rasa dari sampel sebelumnya. Berilah penilaian/skor pada setiap sampel (**skor boleh dobel**) dari yang **paling disukai (5)**, **agak disukai (4)**, **disukai (3)**, **tidak disukai (2)**, hingga **paling tidak disukai (1)**. Anda boleh mengulangi merasakan sesering yang anda perlukan.

Kode Sampel	Skor (boleh dobel)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Komentar (Harap diisi) :

Terima Kasih

Uji Rating Hedonik

Nama : _____ Tanggal uji: _____
 Produk : Susu Kacang Merah
 Atribut Pengujian : Warna

Instruksi:

Di hadapan Anda terdapat 6 sampel, amatilah sampel secara berurutan dari kiri ke kanan (**jangan membandingkan antar sampel**). Berilah penilaian/skor pada setiap sampel (**skor boleh dobel**) dari yang **paling disukai (5)**, **agak disukai (4)**, **disukai (3)**, **tidak disukai (2)**, hingga **paling tidak disukai (1)**. Anda boleh mengulangi mengamati sesering yang anda perlukan.

Kode Sampel	Skor (boleh dobel)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Komentar (Harap diisi) :

Terima Kasih

Uji Rating Hedonik

Nama : _____ Tanggal uji: _____

Produk : Susu Kacang Merah
 Atribut Pengujian : Tekstur (Kekentalan)

Instruksi:

Di hadapan Anda terdapat 6 sampel, cicipilah dan amatilah sampel secara berurutan dari kiri ke kanan (**jangan membandingkan antar sampel**). Setiap ganti sampel bilaslah lidah Anda dengan memakan agar dan meminum air putih yang telah disediakan untuk menghilangkan rasa dari sampel sebelumnya. Berilah penilaian/skor pada setiap sampel (**skor boleh dobel**) dari yang **paling disukai (5)**, **agak disukai (4)**, **disukai (3)**, **tidak disukai (2)**, hingga **paling tidak disukai (1)**. Anda boleh mengulangi merasakan dan mengamati sesering yang anda perlukan.

Kode Sampel

Skor (boleh dobel)

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Komentar (Harap diisi) :

Terima Kasih

Uji Rating Hedonik

Nama : _____ Tanggal uji: _____
 Produk : Susu Kacang Merah
 Atribut Pengujian : Aroma

Instruksi:

Di hadapan Anda terdapat 6 sampel, ciumlah sampel secara berurutan dari kiri ke kanan, rasakan masing-masing sampel (**jangan membandingkan antar sampel**). Berilah penilaian/skor pada setiap sampel (**skor boleh dobel**) dari yang **paling disukai (5)**, **agak disukai (4)**, **disukai (3)**, **tidak disukai (2)**, hingga **paling tidak disukai (1)**. Anda boleh mengulangi mencium sesering yang anda perlukan.

Kode Sampel

Skor (boleh dobel)

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Komentar (Harap diisi) :

Terima Kasih

Uji Rating Hedonik

Nama : _____ Tanggal uji: _____
 Produk : Susu Kacang Merah
 Atribut Pengujian : *Overall*

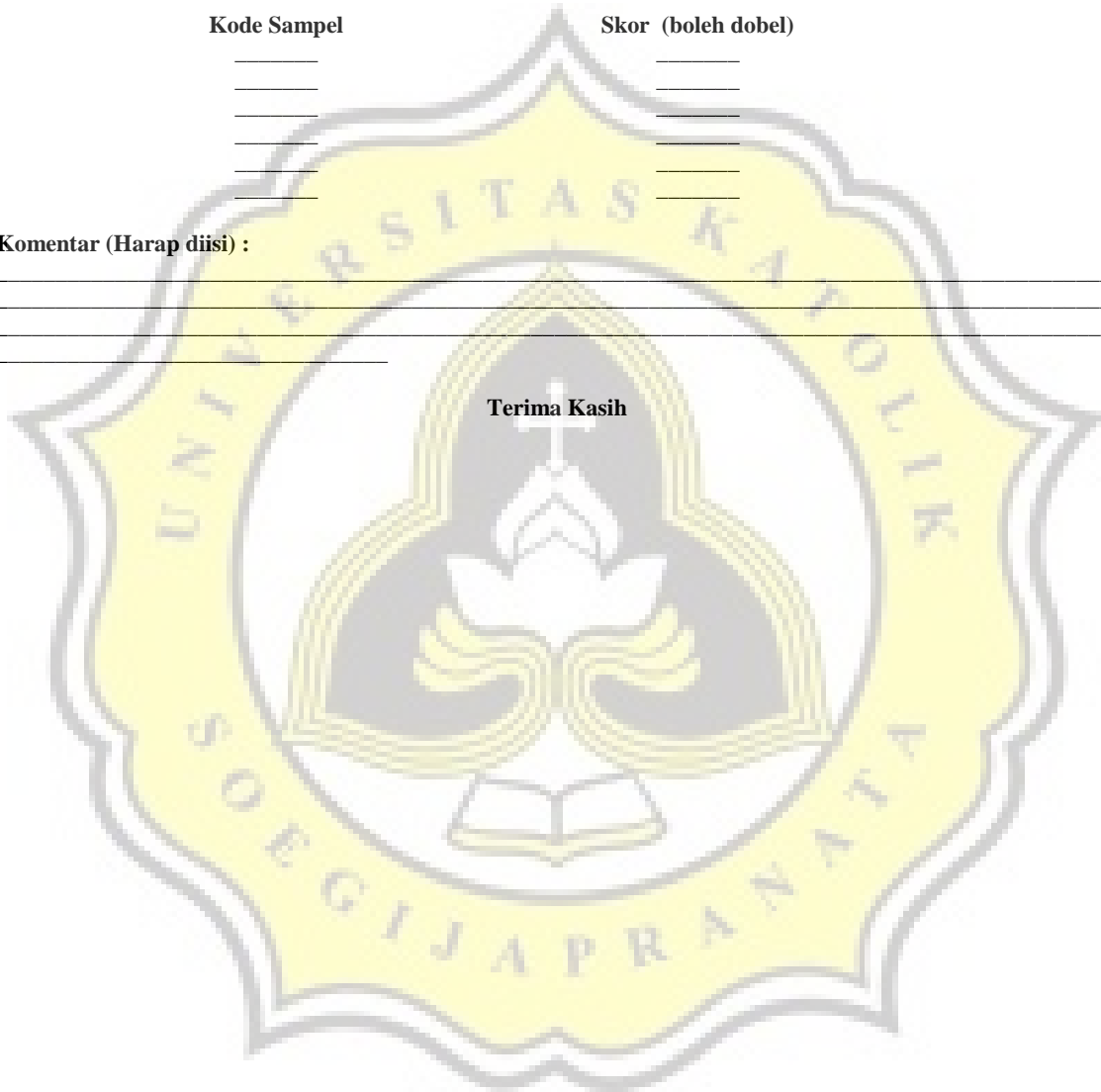
Instruksi:

Di hadapan Anda terdapat 6 sampel, amatilah sampel secara berurutan dari kiri ke kanan, (**jangan membandingkan antar sampel**). Berilah penilaian/skor pada setiap sampel (**skor boleh dobel**) dari yang **paling disukai (5)**, **agak disukai (4)**, **disukai (3)**, **tidak disukai (2)**, hingga **paling tidak disukai (1)**. Anda boleh mengulangi mengamati sesering yang anda perlukan.

Kode Sampel	Skor (boleh dobel)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Komentar (Harap diisi) :

Terima Kasih



Lampiran 6. Hasil Analisa Sensoris Penelitian Utama

Atribut	Skor	A		B		C		D		E		F	
		panelis	skor* panelis	panelis	skor* panelis	panelis	skor* panelis	panelis	skor* panelis	panelis	skor* panelis	panelis	skor* panelis
Aroma	1	6	6	6	6	0	0	2	2	2	2	1	1
	2	21	42	18	36	5	10	11	22	4	8	16	32
	3	28	84	25	75	24	72	26	78	48	144	28	84
	4	9	36	15	60	38	152	25	100	15	60	24	96
	5	6	30	6	30	3	15	6	30	1	5	1	5
	rata-rata skor			2.83		2.96		3.56		3.31		3.13	
Warna	1	0	0	1	1	0	0	0	0	2	2	3	3
	2	8	16	14	28	2	4	3	6	13	26	7	14
	3	28	84	16	48	23	69	33	99	33	99	40	120
	4	29	116	36	144	43	172	32	128	21	84	18	72
	5	5	25	3	15	2	10	2	10	1	5	2	10
	rata-rata skor			3.44		3.37		3.64		3.47		3.09	
Tekstur	1	1	1	0	0	0	0	2	2	5	5	5	5
	2	7	14	9	18	9	18	10	20	3	6	5	10
	3	34	102	34	102	41	123	27	81	26	78	42	126
	4	25	100	26	104	20	80	29	116	34	136	17	68
	5	3	15	1	5	0	0	2	10	2	10	1	5
	rata-rata skor			3.31		3.27		3.16		3.27		3.36	
Rasa	1	5	5	4	4	1	1	0	0	3	3	0	0
	2	22	44	17	34	6	12	5	10	22	44	19	38
	3	31	93	23	69	24	72	29	87	19	57	42	126

	4	12	48	21	84	37	148	31	124	25	100	9	36
	5	0	0	5	25	2	10	5	25	1	5	0	0
	rata-rata skor		2.71		3.09		3.47		3.51		2.99		2.86
	1	3	3	0	0	0	0	0	0	0	0	0	0
	2	19	38	6	12	2	4	3	6	5	10	7	14
	3	31	93	23	69	25	75	24	72	22	66	40	120
Overall	4	16	64	40	160	39	156	38	152	43	172	23	92
	5	1		1	5	4	20	5	25	0	0	0	0
	rata-rata skor		2.9		3.51		5		3.64		3.54		3.23

Keterangan:

- A : suhu pemasakan 70°C pasteurisasi 72°C (70°C; 72°C) ; B : suhu pemasakan 70°C pasteurisasi 88°C (70°C; 88°C); C : suhu pemasakan 80°C pasteurisasi 72°C (80°C; 72°C); D : suhu pemasakan 80°C pasteurisasi 88°C (80°C; 88°C); E : suhu pemasakan 90°C pasteurisasi 72°C (90°C; 72°C); F : suhu pemasakan 90°C pasteurisasi 88°C (90°C; 88°C).
- Skor 1 = paling tidak disukai, skor 2 = tidak disukai, skor 3 = disukai, skor 4 = agak disukai, skor 5 = paling disukai

Lampiran 7. Hasil Uji Beda antara Dua Batch

Test Statistics^b

	viskos
Mann-Whitney U	153.500
Wilcoxon W	324.500
Z	-.276
Asymp. Sig. (2-tailed)	.783
Exact Sig. [2*(1-tailed Sig.)]	.791 ^a

a. Not corrected for ties.

b. Grouping Variable: batch

Test Statistics^b

	warna_L	warna_a	warna_b
Mann-Whitney U	155.000	148.000	137.500
Wilcoxon W	326.000	319.000	308.500
Z	-.222	-.443	-.776
Asymp. Sig. (2-tailed)	.825	.658	.438
Exact Sig. [2*(1-tailed Sig.)]	.839 ^a	.673 ^a	.443 ^a

a. Not corrected for ties.

b. Grouping Variable: batch

Test Statistics^b

	kadar_air	kadar_abu	protein	lemak	serat
Mann-Whitney U	157.000	153.500	159.500	159.500	145.500
Wilcoxon W	328.000	324.500	330.500	330.500	316.500
Z	-.158	-.281	-.079	-.079	-.522
Asymp. Sig. (2-tailed)	.874	.778	.937	.937	.602
Exact Sig. [2*(1-tailed Sig.)]	.888 ^a	.791 ^a	.938 ^a	.938 ^a	.606 ^a

a. Not corrected for ties.

b. Grouping Variable: batch

Lampiran 8. Hasil Normalitas Data

Tests of Normality^{b,c,d}

perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
viskos	70-88	.276	6	.170	.801	6	.060
	80-72	.286	6	.136	.755	6	.022
	90-88	.312	6	.069	.767	6	.029

a. Lilliefors Significance Correction

b. viskos is constant when perlakuan = 70-72. It has been omitted.

c. viskos is constant when perlakuan = 80-88. It has been omitted.

d. viskos is constant when perlakuan = 90-72. It has been omitted.

Tests of Normality

perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
warna_L	70_72	.216	6	.200*	.926	6	.546
	70_88	.256	6	.200*	.774	6	.034
	80_72	.286	6	.136	.771	6	.032
	80_88	.155	6	.200*	.985	6	.974
	90_72	.194	6	.200*	.933	6	.607
	90_88	.266	6	.200*	.908	6	.421
warna_a	70_72	.289	6	.128	.774	6	.034
	70_88	.164	6	.200*	.950	6	.739
	80_72	.221	6	.200*	.973	6	.913
	80_88	.309	6	.075	.864	6	.204
	90_72	.214	6	.200*	.958	6	.804
	90_88	.185	6	.200*	.974	6	.918
warna_b	70_72	.258	6	.200*	.913	6	.455
	70_88	.308	6	.077	.847	6	.149
	80_72	.301	6	.096	.815	6	.080
	80_88	.237	6	.200*	.845	6	.144
	90_72	.175	6	.200*	.965	6	.861
	90_88	.249	6	.200*	.890	6	.316

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

a. Lilliefors Significance Correction

Tests of Normality

perlakuan		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
kadar_air	70_72	.293	6	.117	.915	6	.473
	70_88	.285	6	.138	.831	6	.110
	80_72	.293	6	.117	.915	6	.473
	80_88	.308	6	.077	.857	6	.178
	90_72	.214	6	.200*	.958	6	.804
	90_88	.285	6	.138	.831	6	.110
kadar_abu	70_72	.283	6	.143	.921	6	.514
	70_88	.254	6	.200*	.866	6	.212
	80_72	.293	6	.117	.822	6	.091
	80_88	.293	6	.117	.822	6	.091
	90_72	.254	6	.200*	.866	6	.212
	90_88	.285	6	.138	.831	6	.110
protein	70_72	.283	6	.145	.918	6	.488
	70_88	.244	6	.200*	.865	6	.205
	80_72	.296	6	.109	.853	6	.166
	80_88	.274	6	.178	.875	6	.248
	90_72	.257	6	.200*	.910	6	.434
	90_88	.165	6	.200*	.965	6	.861
lemak	70_72	.208	6	.200*	.909	6	.429
	70_88	.148	6	.200*	.966	6	.867
	80_72	.165	6	.200*	.960	6	.819
	80_88	.251	6	.200*	.915	6	.469
	90_72	.286	6	.136	.790	6	.047
	90_88	.290	6	.124	.860	6	.191
serat	70_72	.196	6	.200*	.912	6	.453
	70_88	.257	6	.200*	.875	6	.248
	80_72	.223	6	.200*	.956	6	.792
	80_88	.315	6	.064	.773	6	.033
	90_72	.256	6	.200*	.907	6	.418
	90_88	.274	6	.180	.821	6	.089

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

a. Lilliefors Significance Correction

Tests of Normality

perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH 70-72	.193	18	.076	.926	18	.168
70_88	.200	18	.056	.871	18	.019
80_72	.143	18	.200*	.943	18	.327
80_88	.138	18	.200*	.958	18	.569
90_72	.141	18	.200*	.957	18	.548
90_88	.186	18	.102	.898	18	.052

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

a. Lilliefors Significance Correction

Tests of Normality

hari	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH hari ke 0	.091	36	.200*	.983	36	.840
hari_3	.136	36	.091	.927	36	.020
hari_7	.173	36	.008	.873	36	.001

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

a. Lilliefors Significance Correction

Lampiran 9. Tabel Deskriptif Statistik Analisa Fisik

Descriptives

viskos	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
70-72	6	2.5000	.00000	.00000	2.5000	2.5000	2.50	2.50
70-88	6	2.6500	.19748	.08062	2.4428	2.8572	2.50	3.00
80-72	6	2.8167	.14720	.06009	2.6622	2.9711	2.70	3.00
80-88	6	3.0000	.00000	.00000	3.0000	3.0000	3.00	3.00
90-72	6	3.5000	.00000	.00000	3.5000	3.5000	3.50	3.50
90-88	6	3.6333	.15055	.06146	3.4753	3.7913	3.50	3.80
Total	36	3.0167	.43916	.07319	2.8681	3.1653	2.50	3.80

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
warna_L 70_72	6	35.16067	1.040526	.424793	34.06870	36.25263	33.957	36.583
70_88	6	34.52833	.913267	.372840	33.56992	35.48675	32.780	35.190
80_72	6	33.23333	.901103	.367874	32.28768	34.17898	32.550	34.980
80_88	6	32.54000	.336927	.137550	32.18642	32.89358	32.100	33.050
90_72	6	31.44667	.511455	.208801	30.90993	31.98341	30.780	32.070
90_88	6	30.78217	.534464	.218194	30.22128	31.34305	30.193	31.740
Total	36	32.94853	1.727623	.287937	32.36398	33.53307	30.193	36.583
warna_a 70_72	6	1.76800	.064746	.026432	1.70005	1.83595	1.698	1.830
70_88	6	1.68000	.023664	.009661	1.65517	1.70483	1.650	1.710
80_72	6	1.63667	.024221	.009888	1.61125	1.66209	1.600	1.670
80_88	6	1.62833	.027869	.011377	1.59909	1.65758	1.600	1.680
90_72	6	1.55833	.014720	.006009	1.54289	1.57378	1.540	1.580
90_88	6	1.45333	.017512	.007149	1.43496	1.47171	1.430	1.480
Total	36	1.62078	.103890	.017315	1.58563	1.65593	1.430	1.830
warna_b 70_72	6	-4.49667	.087788	.035839	-4.58879	-4.40454	-4.600	-4.340
70_88	6	-4.41667	.036697	.014981	-4.45518	-4.37816	-4.450	-4.350
80_72	6	-4.40000	.262298	.107083	-4.67526	-4.12474	-4.790	-4.180
80_88	6	-4.56833	.170695	.069686	-4.74747	-4.38920	-4.860	-4.430
90_72	6	-4.30000	.073756	.030111	-4.37740	-4.22260	-4.420	-4.210
90_88	6	-4.05833	.087731	.035816	-4.15040	-3.96627	-4.210	-3.970
Total	36	-4.37333	.211336	.035223	-4.44484	-4.30183	-4.860	-3.970

Lampiran 10. Tabel Anova Analisa Fisik

ANOVA

viskos

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6.333	5	1.267	91.200	.000
Within Groups	.417	30	.014		
Total	6.750	35			

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
warna_L Between Groups	87.516	5	17.503	30.984	.000
Within Groups	16.947	30	.565		
Total	104.464	35			
warna_a Between Groups	.345	5	.069	62.284	.000
Within Groups	.033	30	.001		
Total	.378	35			
warna_b Between Groups	.963	5	.193	9.616	.000
Within Groups	.601	30	.020		
Total	1.563	35			

Lampiran 11. Tabel Post Hoc Analisa Fisik

viskos

Duncan^a

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
70-72	6	2.5000				
70-88	6		2.6500			
80-72	6			2.8167		
80-88	6				3.0000	
90-72	6					3.5000
90-88	6					3.6333
Sig.		1.000	1.000	1.000	1.000	.059

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

warna_a

Duncan^a

perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
90_88	6	1.45333				
90_72	6		1.55833			
80_88	6			1.62833		
80_72	6			1.63667		
70_88	6				1.68000	
70_72	6					1.76800
Sig.		1.000	1.000	.667	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

warna_L

Duncan^a

perlakuan	N	Subset for alpha = .05		
		1	2	3
90_88	6	30.78217		
90_72	6	31.44667		
80_88	6		32.54000	
80_72	6		33.23333	
70_88	6			34.52833
70_72	6			35.16067
Sig.		.136	.121	.155

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

warna_b

Duncan^a

perlakuan	N	Subset for alpha = .05		
		1	2	3
80_88	6	-4.56833		
70_72	6	-4.49667		
70_88	6	-4.41667	-4.41667	
80_72	6	-4.40000	-4.40000	
90_72	6		-4.30000	
90_88	6			-4.05833
Sig.		.068	.187	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 12. Tabel Deskriptif Statistik Analisa Kimia

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
kadar_air	70_72	6	94.48333	.010328	.004216	94.47249	94.49417	94.470	94.500
	70_88	6	94.45000	.012649	.005164	94.43673	94.46327	94.430	94.460
	80_72	6	94.42333	.010328	.004216	94.41249	94.43417	94.410	94.440
	80_88	6	94.22500	.013784	.005627	94.21053	94.23947	94.210	94.250
	90_72	6	94.17167	.014720	.006009	94.15622	94.18711	94.150	94.190
	90_88	6	94.02000	.012649	.005164	94.00673	94.03327	94.010	94.040
	Total	36	94.29556	.171954	.028659	94.23737	94.35374	94.010	94.500
kadar_abu	70_72	6	.69167	.066458	.027131	.62192	.76141	.600	.800
	70_88	6	.69167	.037639	.015366	.65217	.73117	.650	.750
	80_72	6	.71667	.040825	.016667	.67382	.75951	.650	.750
	80_88	6	.71667	.040825	.016667	.67382	.75951	.650	.750
	90_72	6	.74167	.037639	.015366	.70217	.78117	.700	.800
	90_88	6	.80000	.063246	.025820	.73363	.86637	.750	.900
	Total	36	.72639	.059144	.009857	.70638	.74640	.600	.900
protein	70_72	6	1.81606	.036326	.014830	1.77793	1.85418	1.766	1.865
	70_88	6	1.88852	.044773	.018278	1.84154	1.93551	1.833	1.934
	80_72	6	1.97251	.070634	.028836	1.89838	2.04663	1.843	2.042
	80_88	6	2.20776	.052183	.021304	2.15299	2.26252	2.112	2.265
	90_72	6	2.20441	.047081	.019221	2.15500	2.25382	2.130	2.252
	90_88	6	2.19192	.053638	.021898	2.13563	2.24821	2.129	2.276
	Total	36	2.04686	.170242	.028374	1.98926	2.10446	1.766	2.276
lemak	70_72	6	.86856	.009919	.004049	.85815	.87896	.857	.882
	70_88	6	.90989	.004071	.001662	.90562	.91417	.905	.916
	80_72	6	.95019	.019064	.007783	.93018	.97019	.928	.978
	80_88	6	1.06870	.006240	.002547	1.06215	1.07525	1.062	1.079
	90_72	6	1.05732	.078844	.032188	.97458	1.14006	.987	1.210
	90_88	6	1.03786	.003804	.001553	1.03386	1.04185	1.034	1.045
	Total	36	.98208	.083850	.013975	.95371	1.01046	.857	1.210
serat	70_72	6	.26990	.004011	.001637	.26569	.27411	.265	.274
	70_88	6	.26885	.005710	.002331	.26286	.27485	.263	.276
	80_72	6	.26589	.003934	.001606	.26176	.27002	.261	.272
	80_88	6	.26319	.007286	.002974	.25554	.27083	.255	.270
	90_72	6	.24828	.005751	.002348	.24224	.25431	.238	.254
	90_88	6	.24561	.005170	.002111	.24019	.25104	.242	.254
	Total	36	.26029	.011054	.001842	.25655	.26403	.238	.276

Lampiran 13. Tabel Anova Analisa Kimia

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar_air	Between Groups	1.030	5	.206	1315.135	.000
	Within Groups	.005	30	.000		
	Total	1.035	35			
kadar_abu	Between Groups	.050	5	.010	4.074	.006
	Within Groups	.073	30	.002		
	Total	.122	35			
protein	Between Groups	.934	5	.187	69.465	.000
	Within Groups	.081	30	.003		
	Total	1.014	35			
lemak	Between Groups	.212	5	.042	37.760	.000
	Within Groups	.034	30	.001		
	Total	.246	35			
serat	Between Groups	.003	5	.001	22.984	.000
	Within Groups	.001	30	.000		
	Total	.004	35			

Lampiran 14. Tabel Post Hoc Analisa Kimia

kadar_air

Duncan ^a							
perlakuan	N	Subset for alpha = .05					
		1	2	3	4	5	6
90_88	6	94.02000					
90_72	6		94.17167				
80_88	6			94.22500			
80_72	6				94.42333		
70_88	6					94.45000	
70_72	6						94.48333
Sig.		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 = 6.000.

kadar_abu

Duncan ^a			
perlakuan	N	Subset for alpha = .05	
		1	2
70_72	6	.69167	
70_88	6	.69167	
80_72	6	.71667	
80_88	6	.71667	
90_72	6	.74167	
90_88	6		.80000
Sig.		.126	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

serat

Duncan ^a			
perlakuan	N	Subset for alpha = .05	
		1	2
90_88	6	.24561	
90_72	6	.24828	
80_88	6		.26319
80_72	6		.26589
70_88	6		.26885
70_72	6		.26990
Sig.		.402	.058

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

protein

Duncan ^a					
perlakuan	N	Subset for alpha = .05			
		1	2	3	4
70_72	6	1.81606			
70_88	6		1.88852		
80_72	6			1.97251	
90_88	6				2.19192
90_72	6				2.20441
80_88	6				2.20776
Sig.		1.000	1.000	1.000	.623

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

lemak

Duncan ^a					
perlakuan	N	Subset for alpha = .05			
		1	2	3	4
70_72	6	.86856			
70_88	6		.90989		
80_72	6			.95019	
90_88	6				1.03786
90_72	6				1.05732
80_88	6				1.06870
Sig.		1.000	1.000	1.000	.142

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 15. Tabel Deskriptif Statistik pH Penyimpanan

Descriptive Statistics

Dependent Variable: pH

perlakuan	hari	Mean	Std. Deviation	N
70-72	hari ke 0	6.8300	.10583	6
	hari_3	6.5200	.02280	6
	hari_7	6.0533	.11961	6
	Total	6.4678	.33992	18
70_88	hari ke 0	6.9050	.10291	6
	hari_3	6.5750	.10291	6
	hari_7	5.8200	.09338	6
	Total	6.4333	.47662	18
80_72	hari ke 0	6.9600	.12696	6
	hari_3	6.6617	.07985	6
	hari_7	6.3933	.04131	6
	Total	6.6717	.25266	18
80_88	hari ke 0	6.9700	.09695	6
	hari_3	6.7267	.06314	6
	hari_7	6.4117	.08841	6
	Total	6.7028	.24809	18
90_72	hari ke 0	7.0750	.11828	6
	hari_3	6.7650	.06221	6
	hari_7	6.4450	.08068	6
	Total	6.7617	.27788	18
90_88	hari ke 0	7.1667	.09352	6
	hari_3	6.7550	.04593	6
	hari_7	6.2950	.04637	6
	Total	6.7389	.37155	18
Total	hari ke 0	6.9844	.14971	36
	hari_3	6.6672	.11254	36
	hari_7	6.2364	.24268	36
	Total	6.6294	.35440	108

Lampiran 16. Tabel Anova pH Penyimpanan

Tests of Between-Subjects Effects

Dependent Variable: pH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12.746 ^a	17	.750	97.291	.000
Intercept	4746.417	1	4746.417	615929.0	.000
perlakuan * hari	.774	10	.077	10.039	.000
perlakuan	1.822	5	.364	47.285	.000
hari	10.150	2	5.075	658.569	.000
Error	.694	90	.008		
Total	4759.856	108			
Corrected Total	13.439	107			

a. R Squared = .948 (Adjusted R Squared = .939)

Lampiran 17. Tabel Post Hoc pH Penyimpanan

pH

Duncan^{a,b}

hari	N	Subset		
		1	2	3
hari_7	36	6.2364		
hari_3	36		6.6672	
hari ke 0	36			6.9844
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares

The error term is Mean Square(Error) = .008.

a. Uses Harmonic Mean Sample Size = 36.000.

b. Alpha = .05.

pH

Duncan^{a,b}

perlakuan	N	Subset		
		1	2	3
70_88	18	6.4333		
70-72	18	6.4678		
80_72	18		6.6717	
80_88	18		6.7028	6.7028
90_88	18			6.7389
90_72	18			6.7617
Sig.		.242	.291	.059

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares

The error term is Mean Square(Error) = .008.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 18. Tabel Korelasi pH dan Jumlah Bakteri

Correlations

		pH	jumlah_bakteri
pH	Pearson Correlation	1	-.886**
	Sig. (2-tailed)		.000
	N	108	108
jumlah_bakteri	Pearson Correlation	-.886**	1
	Sig. (2-tailed)	.000	
	N	108	108

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

Lampiran 19. Hasil Analisa Sensoris Penelitian Utama

Test Statistics^{a,b}

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Chi-Square	25.491	48.697	9.848	30.799	50.631
df	5	5	5	5	5
Asymp. Sig.	.000	.000	.080	.000	.000

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

A vs B

Test Statistics^a

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	2428.500	1946.500	2376.000	2265.500	1453.000
Wilcoxon W	4913.500	4431.500	4861.000	4750.500	3938.000
Z	-.096	-2.203	-.337	-.803	-4.447
Asymp. Sig. (2-tailed)	.923	.028	.736	.422	.000

a. Grouping Variable: perlakuan

A vs C

Test Statistics^a

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	2079.500	1273.500	2155.500	1371.500	1280.500
Wilcoxon W	4564.500	3758.500	4640.500	3856.500	3765.500
Z	-1.710	-5.202	-1.362	-4.727	-5.220
Asymp. Sig. (2-tailed)	.087	.000	.173	.000	.000

a. Grouping Variable: perlakuan

A vs D

Test Statistics^a

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	2391.500	1247.500	2384.000	1746.500	1288.000
Wilcoxon W	4876.500	3732.500	4799.000	4231.500	3773.000
Z	-.108	-5.229	-.141	-2.944	-5.065
Asymp. Sig. (2-tailed)	.914	.000	.888	.003	.000

a. Grouping Variable: perlakuan

A vs E

Test Statistics^a

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	1956.500	2069.000	2259.500	1911.000	1398.500
Wilcoxon W	4512.500	4554.000	4744.500	4396.000	3883.500
Z	-2.339	-1.803	-1.011	-2.595	-4.817
Asymp. Sig. (2-tailed)	.019	.071	.312	.009	.000

a. Grouping Variable: perlakuan

A vs F**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-WhitneyU	1952.000	2235.000	2070.000	1990.000	1909.500
Wilcoxon W	4437.000	4720.000	4555.000	4475.000	4394.500
Z	-2.256	-.984	-1.757	-2.016	-2.455
Asymp. Sig. (2-tailed)	.024	.325	.079	.044	.014

a. Grouping Variable: perlakuan

B vs C**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-WhitneyU	2111.000	1891.500	2226.500	1601.000	2267.500
Wilcoxon W	4596.000	4376.500	4711.500	4086.000	4752.500
Z	-1.582	-2.472	-1.036	-3.734	-.861
Asymp. Sig. (2-tailed)	.114	.013	.300	.000	.389

a. Grouping Variable: perlakuan

B vs D**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-WhitneyU	2391.000	1852.500	2376.000	1952.000	2240.500
Wilcoxon W	4876.000	4337.500	4861.000	4437.000	4725.500
Z	-.110	-2.506	-.178	-2.035	-.827
Asymp. Sig. (2-tailed)	.912	.012	.859	.042	.409

a. Grouping Variable: perlakuan

B vs E**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-WhitneyU	2010.500	2383.000	2181.500	2181.000	2414.000
Wilcoxon W	4566.500	4939.000	4666.500	4666.000	4899.000
Z	-2.084	-.440	-1.364	-1.362	-.337
Asymp. Sig. (2-tailed)	.037	.660	.172	.173	.736

a. Grouping Variable: perlakuan

B vs F**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-WhitneyU	1996.500	2093.000	2136.000	2212.000	1848.000
Wilcoxon W	4481.500	4578.000	4621.000	4697.000	4333.000
Z	-2.020	-1.592	-1.454	-1.040	-2.776
Asymp. Sig. (2-tailed)	.043	.111	.146	.298	.006

a. Grouping Variable: perlakuan

C vs D**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	2028.000	2401.000	2168.500	2032.500	2411.500
Wilcoxon W	4443.000	4816.000	4653.500	4447.500	4826.500
Z	-1.842	-.065	-1.134	-1.735	-.017
Asymp. Sig. (2-tailed)	.066	.948	.257	.083	.987

a. Grouping Variable: perlakuan

C vs E**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	1550.500	1806.500	1949.500	1662.500	2370.000
Wilcoxon W	4106.500	4362.500	4434.500	4218.500	4926.000
Z	-4.209	-2.992	-2.420	-3.767	-.544
Asymp. Sig. (2-tailed)	.000	.003	.016	.000	.586

a. Grouping Variable: perlakuan

C vs F**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	1522.000	1319.500	2351.500	1736.500	1656.500
Wilcoxon W	4007.000	3804.500	4836.500	4221.500	4141.500
Z	-4.256	-5.098	-.467	-3.209	-3.668
Asymp. Sig. (2-tailed)	.000	.000	.640	.001	.000

a. Grouping Variable: perlakuan

D vs E**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	1864.000	1766.000	2219.000	2162.000	2339.500
Wilcoxon W	4420.000	4322.000	4634.000	4718.000	4895.500
Z	-2.663	-3.022	-1.040	-1.317	-.522
Asymp. Sig. (2-tailed)	.008	.003	.298	.188	.601

a. Grouping Variable: perlakuan

D vs F**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	1853.500	1307.500	2080.000	2139.000	1657.000
Wilcoxon W	4338.500	3792.500	4565.000	4624.000	4142.000
Z	-2.627	-5.092	-1.538	-1.231	-3.523
Asymp. Sig. (2-tailed)	.009	.000	.124	.218	.000

a. Grouping Variable: perlakuan

E vs F**Test Statistics^a**

	pene_warna	pene_rasa	pene_kekentalan	pene_aroma	pene_overall
Mann-Whitney U	2444.500	2228.000	1872.500	2463.500	1784.500
Wilcoxon W	5000.500	4713.000	4357.500	4948.500	4269.500
Z	-.183	-1.130	-2.760	-.098	-3.215
Asymp. Sig. (2-tailed)	.855	.258	.006	.922	.001

a. Grouping Variable: perlakuan

