7. LAMPIRAN

Lampiran 1. Analisa Normalitas dan One Way ANOVA dari SPSS

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
RENDEMEN	,177	6	,200*	,952	6	,760

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

a. Lilliefors Significance Correction

ANOVA

RENDEMEN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2,305	2	1,153	16,927	,023
Within Groups	,204	3	,068		
Total	2,510	5			

RENDEMEN

Duncan[a]

		Subset for alpha = .05	
KEJU	N	1	2
BAKTERI	2	4,1100	
5%	2		4,9550
10%	2		5,6250
Sig.		1,000	,083

Means for groups in homogeneous subsets are displayed

a. Uses Harmonic Mean Sample Size = 2,000.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kemuluran	,161	6	,200*	,932	6	,594
kadar_air_aw	,278	6	,161	,873	6	,239
kadar_air_ak	,292	6	,120	,819	6	,087
ph_awal	,234	6	,200*	,923	6	,528
ph_akhir	,231	6	,200*	,840	6	,129
daya_leleh	,261	6	,200*	,897	6	,356

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

a. Lilliefors Significance Correction

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kemuluran	Between Groups	9115,111	2	4557,556	85,401	,000
	Within Groups	800,500	15	53,367		
	Total	9915,611	17			
ph_awl	Between Groups	,662	2	,331	14,786	,000
	Within Groups	,336	15	,022		
	Total	,998	17			
ph_akh	Between Groups	,561	2	,281	26,650	,000
	Within Groups	,158	15	,011		
	Total	,719	17			
air_awl	Between Groups	36,073	2	18,036	12,428	,001
	Within Groups	21,769	15	1,451		
	Total	57,841	17			
air_akh	Between Groups	19,468	2	9,734	1,834	,194
	Within Groups	79,618	15	5,308		
	Total	99,086	17			
leleh	Between Groups	922758,8	2	461379,386	600,569	,000
	Within Groups	11523,564	15	768,238		
	Total	934282,3	17			

kemuluran

Duncan[a]

		Subset for alpha = .05		
keju	N	1	2	3
5%	6	87,1667		
10%	6		117,8333	
"bakteri"	6			142,1667
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

leleh

Duncan[a]

		Subset for alpha = .05		
keju	N	1	2	3
5%	6	55,4567		
10%	6		161,5650	
"bakteri"	6			579,9400
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

ph_awl

Duncan[a]

		Subset for alpha = .05	
keju	N	1	2
"bakteri"	6	5,4867	
10%	6		5,8550
5%	6		5,9233
Sig.		1,000	,441

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

ph_akh

Duncan[a]

		Subset for alpha = .05	
keju	N	1	2
"bakteri"	6	5,3700	
10%	6		5,7350
5%	6		5,7533
Sig.		1,000	,761

Means for groups in homogeneous subsets are displayed

air_awl

Duncan[a]

		Subset for alpha = .05	
keju	N	1	2
"bakteri"	6	21,2183	
10%	6		23,2017
5%	6		24,6733
Sig.		1,000	,051

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

air_akh

Duncan[a]

		Subset for alpha = .05
keju	N	1
"bakteri"	6	24,6800
10%	6	26,2717
5%	6	27,1983
Sig.		,092

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Group Statistics

	keju	N	Mean	Std. Deviation	Std. Error Mean
kemuluran	5%	6	87,1667	6,49359	2,65100
	komersil	6	119,6667	4,58984	1,87380
daya_leleh	5%	6	55,4567	10,19238	4,16102
	komersil	6	503,7967	21,30128	8,69621

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
kemuluran	Equal variances assumed	,822	,386	-10,011	10	,000	-32,50000	3,24637	-39,73335	-25,26665
	Equal variances not assumed			-10,011	8,998	,000	-32,50000	3,24637	-39,84403	-25,15597
daya_leleh	Equal variances assumed	2,877	,121	-46,506	10	,000	-448,34000	9,64045	-469,820	-426,860
	Equal variances not assumed			-46,506	7,175	,000	-448,34000	9,64045	-471,024	-425,656

Group Statistics

	keju	N	Mean	Std. Deviation	Std. Error Mean
kemuluran	10%	6	117,8333	10,18659	4,15866
	komersil	6	119,6667	4,58984	1,87380
daya_leleh	10%	6	161,5650	17,55307	7,16601
	komersil	6	503,7967	21,30128	8,69621

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
kemuluran	Equal variances assumed	2,896	,120	-,402	10	,696	-1,83333	4,56131	-11,99657	8,32990
	Equal variances not assumed			-,402	6,950	,700	-1,83333	4,56131	-12,63492	8,96826
daya_leleh	Equal variances assumed	,416	,534	-30,371	10	,000	-342,23167	11,26835	-367,339	-317,124
	Equal variances not assumed			-30,371	9,647	,000	-342,23167	11,26835	-367,464	-316,999

Group Statistics

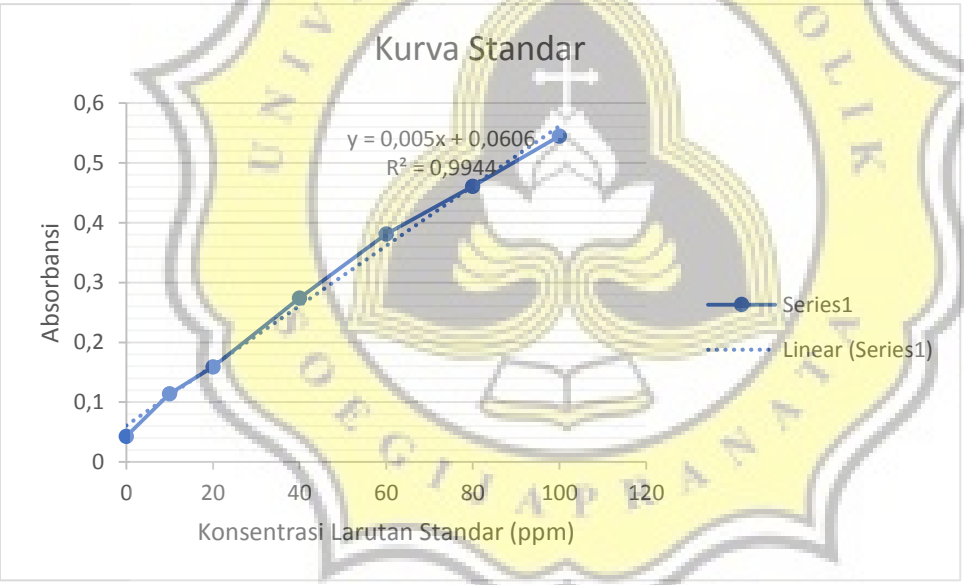
	keju	N	Mean	Std. Deviation	Std. Error Mean
kemuluran	bakteri	6	142,1667	3,76386	1,53659
	komersil	6	119,6667	4,58984	1,87380
daya_leleh	bakteri	6	579,9400	43,50538	17,76100
	komersil	6	503,7967	21,30128	8,69621

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
kemuluran	Equal variances assumed	,586	,462	9,285	10	,000	22,50000	2,42327	17,10062	27,89938
	Equal variances not assumed			9,285	9,631	,000	22,50000	2,42327	17,07242	27,92758
daya_leleh	Equal variances assumed	1,751	,215	3,850	10	,003	76,14333	19,77567	32,08040	120,20627
	Equal variances not assumed			3,850	7,267	,006	76,14333	19,77567	29,72739	122,55927

Lampiran 2. Larutan Standar untuk Perhitungan Kadar Protein Keju *Mozzarella*

Konsentrasi Larutan Standar (ppm)	Absorbansi
0	0,0431
10	0,1142
20	0,1591
40	0,2740
60	0,3814
80	0,4609
100	0,5450



Lampiran 3. Hasil Analisa Data Kadar Protein dan Tekstur Keju Mozzarella

ppm

Duncan[a]

sampel	N	Subset for alpha = .05	
		1	2
5%	6	5330,5675	
10%	6	5365,5399	
bakteri	6	5896,1066	
susu	6		9700,1645
Sig.		,065	1,000

Means for groups in homogeneous subsets are displayed

a. Uses Harmonic Mean Sample Size = 6,000.

tekstur

Duncan[a]

keju	N	Subset for alpha = .05		
		1	2	3
komersial	30	738,2597		
5%	30		1198,1293	
bakteri	30		1303,1505	
10%	30			2489,1567
Sig.		1,000	,059	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 30,000.

Lampiran 4. Hasil Analisa Data Sensori Keju *Mozzarella* Komersial vs Keju *Mozzarella* Bakteri LL B3, *Strawberry* 5%, dan *Strawberry* 10%

Test Statistics[a]

	kemuluran	warna	tekstur	aroma	rasa	overall
Mann-Whitney U	596,000	628,000	1035,000	1457,500	1789,500	851,500
Wilcoxon W	2612,000	2644,000	3051,000	3473,500	3805,500	2867,500
Z	-7,175	-7,263	-4,969	-2,787	-1,037	-6,130
Asymp. Sig. (2-tailed)	,000	,000	,000	,005	,300	,000

a. Grouping Variable: keju

Test Statistics[a]

	kemuluran	warna	tekstur	aroma	rasa	overall
Mann-Whitney U	1350,500	148,000	1200,000	759,000	1052,500	443,000
Wilcoxon W	3366,500	2164,000	3216,000	2775,000	3068,500	2459,000
Z	-3,428	-9,414	-4,140	-6,256	-4,852	-8,039
Asymp. Sig. (2-tailed)	,001	,000	,000	,000	,000	,000

a. Grouping Variable: keju

Test Statistics[a]

	kemuluran	warna	tekstur	aroma	rasa	overall
Mann-Whitney U	1644,500	1121,500	1280,500	1366,500	1598,000	1051,500
Wilcoxon W	3660,500	3137,500	3296,500	3382,500	3614,000	3067,500
Z	-1,908	-4,904	-3,755	-3,255	-2,043	-5,136
Asymp. Sig. (2-tailed)	,056	,000	,000	,001	,041	,000

a. Grouping Variable: keju

Test Statistics[a]

	kemuluran	warna	tekstur	aroma	rasa	overall
Mann-Whitney U	770,500	1815,000	1588,500	1899,000	1818,000	1776,500
Wilcoxon W	2786,500	3831,000	3604,500	3915,000	3834,000	3792,500
Z	-6,215	-,867	-2,054	-,448	-,872	-1,115
Asymp. Sig. (2-tailed)	,000	,386	,040	,654	,383	,265

a. Grouping Variable: keju

Test Statistics[a]

	kemuluran	warna	tekstur	aroma	rasa	overall
Mann-Whitney U	941,500	925,000	1845,000	1174,000	1303,500	1384,000
Wilcoxon W	2957,500	2941,000	3861,000	3190,000	3319,500	3400,000
Z	-5,301	-5,487	-,714	-4,153	-3,527	-3,196
Asymp. Sig. (2-tailed)	,000	,000	,475	,000	,000	,001

a. Grouping Variable: keju

Test Statistics[a]

	kemuluran	warna	tekstur	aroma	rasa	overall
Mann-Whitney U	1702,500	1046,500	1788,000	1222,500	1362,500	1198,000
Wilcoxon W	3718,500	3062,500	3804,000	3238,500	3378,500	3214,000
Z	-1,488	-4,736	-1,019	-3,922	-3,376	-4,139
Asymp. Sig. (2-tailed)	,137	,000	,308	,000	,001	,000

a. Grouping Variable: keju

Lampiran 5. Perhitungan Rendemen Keju *Mozzarella*

- Keju *mozzarella* dengan *Lactobacillus fermentum* LL B3 sebagai asidulan

$$\%Rendemen = \frac{370{,}1gram}{9000gram} \times 100\%$$

$$= 4{,}11\%$$

- Keju *mozzarella* dengan *puree strawberry* 5% sebagai asidulan

$$\%Rendemen = \frac{297{,}3gram}{6000gram} \times 100\%$$

$$= 4{,}96\%$$

- Keju *mozzarella* dengan *puree strawberry* 10% sebagai asidulan

$$\%Rendemen = \frac{337{,}5gram}{6000gram} \times 100\%$$

$$= 5{,}63\%$$

Lampiran 6. *Worksheet* Uji Sensori Keju *Mozzarella*

Worksheet Uji Rating Hedonik

Tanggal uji:
Jenis Sampel: keju mozarella

Identifikasi sampel:	**kode**
Komerisal	A
Keju LL B3	B
Strawberry 5%	C
Strawberry 10%	D

Kode Kombinasi Ururtan Penyajian

1. CADB	2. ABDC	3. CDBA	4. BDCA	5. ADBC
6. CDAB	7. BCAD	8. CBDA	9. ADCB	10. BADC
11. DABC	12. ABCD	13. DCAB	14. DBCA	15. CBAD
16. ACBD	17. BACD	18. DBAC	19. CABD	20. DACB
21. ACDB	22. BCDA	23. BDAC	24. DCBA	25. ABCD
26. BCDA	27. DACB	28. CADB	29. ABDC	30. CDBA

Penyajian:

1.	098	247	264	140
2.	195	056	074	115
3.	283	276	036	210
4.	288	234	094	132
5.	124	209	151	184
6.	251	282	115	236
7.	107	238	158	248
8.	119	079	124	038
9.	030	277	276	139
10.	057	117	092	055
11.	223	110	157	269
12.	140	213	079	236
13.	002	009	195	187
14.	006	158	249	028
15.	199	177	245	075
16.	146	191	095	116
17.	077	138	045	235
18.	082	047	024	293
19.	118	264	133	195
20.	202	099	193	249
21.	086	245	224	262
22.	184	236	251	180
23.	290	008	021	154
24.	120	197	233	037
25.	039	226	031	126
26.	062	059	215	188
27.	043	300	272	244
28.	019	078	136	178
29.	212	284	071	292
30.	244	033	235	028

Lampiran 7. Perhitungan Daya Leleh Keju *Mozzarella*

- Keju *mozzarella* komersial

$$\%Daya\ Leleh = \frac{3922{,}63 - 777{,}0714}{777{,}0714} \times 100\%$$

$$= 503{,}79\%$$

- Keju *mozzarella* dengan *Lactobacillus fermentum* LL B3 sebagai asidulan

$$\%Daya\ Leleh = \frac{4514{,}31 - 777{,}0714}{777{,}0714} \times 100\%$$

$$= 579{,}94\%$$

- Keju *mozzarella* dengan *puree strawberry* 5% sebagai asidulan

$$\%Daya\ Leleh = \frac{1208 - 777{,}0714}{777{,}0714} \times 100\%$$

$$= 55{,}46\%$$

- Keju *mozzarella* dengan *puree strawberry* 10% sebagai asidulan

$$\%Daya\ Leleh = \frac{2032 - 777{,}0714}{777{,}0714} \times 100\%$$

$$= 161{,}57\%$$

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