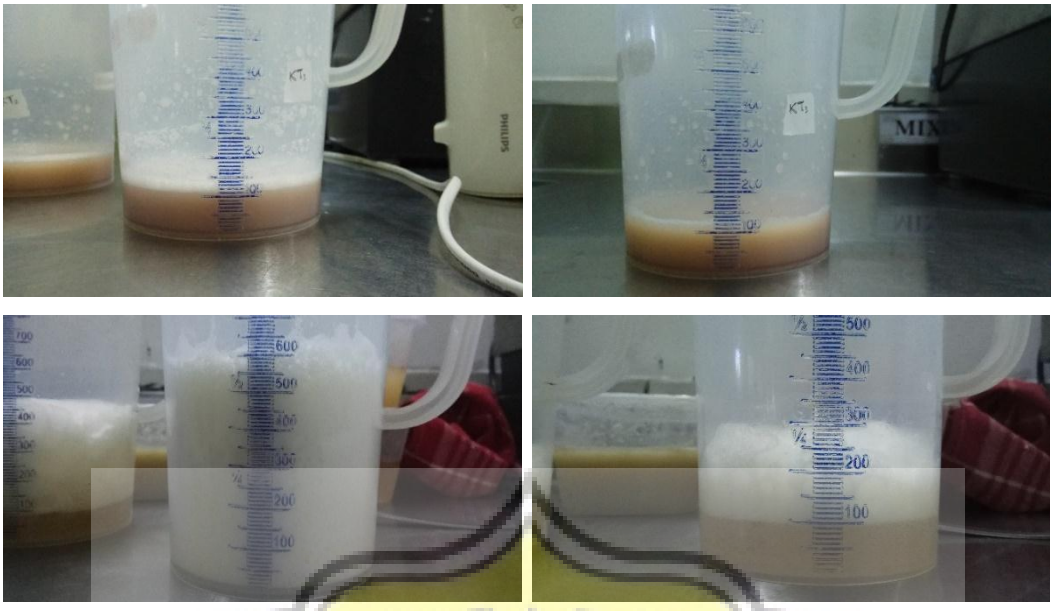
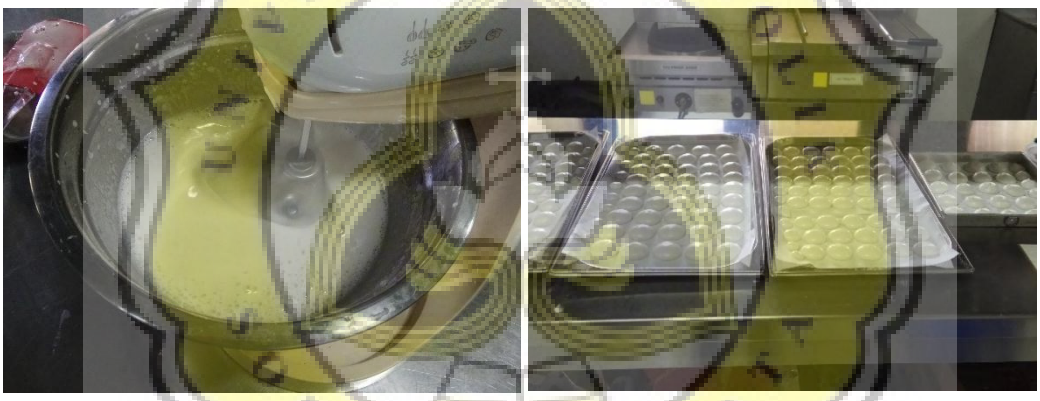
6. LAMPIRAN

Lampiran 1. Foto

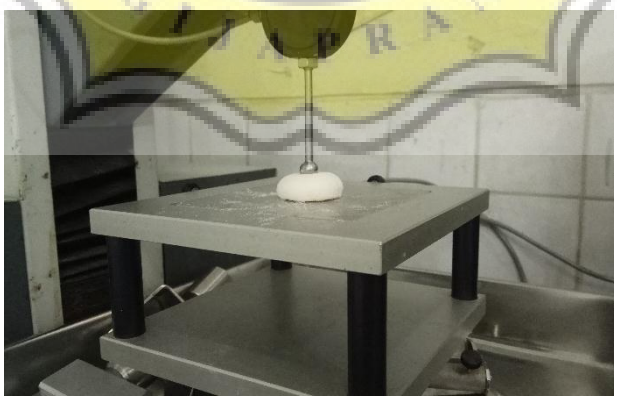
Gambar 8. Pembuatan Air Rebusan Kacang



Gambar 9. Analisis Kapasitas dan Stabilitas Buih

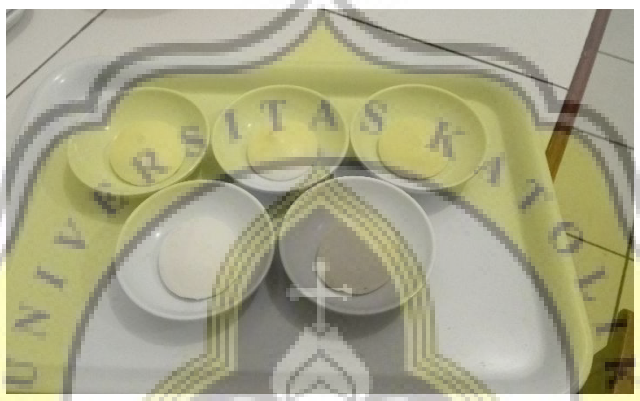


Gambar 10. Pembuatan *Marshmallow*



Gambar 11. Analisis Tekstur

Gambar 12. Analisis Kadar Air



Gambar 13. Analisis Sensori

Gambar 14. Analisis Warna

Lampiran 2. Kuisioner Analisis Sensori

UJI RATING MARSHMALLOW

Nama : Tanggal :

Jenis Kelamin :

Instruksi :

Di hadapan anda tersedia lima buah sampel marshmallow dengan formulasi berbeda. Anda diminta untuk mengamati dan mencicipi tiap sampel **secara urut dari kiri ke kanan**. Sebelum berpindah ke sampel selanjutnya, dimohon untuk **berkumur dengan air** terlebih dahulu. Berikan penilaian berdasarkan **tingkat kesukaan** anda terhadap sampel dengan memberikan skor antara 1 (Sangat Tidak Suka) sampai 5 (Sangat Suka) untuk aspek warna, rasa, tekstur, dan keseluruhan. Nilai untuk tiap sampel **boleh sama**.

Kode Sampel					
Warna					
Rasa					
Tekstur					
Keseluruhan					

Lampiran 3. Hasil Olah Data dengan SPSS

1. Uji Buih Bahan

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Jenis_Kacang	Statistic	df	Sig.	Statistic	df	Sig.
Stabilitas_Buih	Kacang Kedelai	.189	6	.200*	.916	6	.478
	Kacang Hijau	.253	6	.200*	.865	6	.207
	Kacang Tanah	.319	6	.056	.683	6	.004
Daya_Buih	Kacang Kedelai	.305	6	.086	.818	6	.085
	Kacang Hijau	.319	6	.056	.683	6	.004
	Kacang Tanah	.319	6	.056	.683	6	.004

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya_Buih	Based on Mean	20.000	2	15	.000
	Based on Median	16.000	2	15	.000
	Based on Median and with adjusted df	16.000	2	5.000	.007
	Based on trimmed mean	19.756	2	15	.000
Stabilitas_Buih	Based on Mean	11.409	2	15	.001
	Based on Median	11.122	2	15	.001
	Based on Median and with adjusted df	11.122	2	6.482	.008
	Based on trimmed mean	11.407	2	15	.001

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Daya_Buih	Between Groups	1054577.778	2	527288.889	3061.677	.000
	Within Groups	2583.333	15	172.222		
	Total	1057161.111	17			
Stabilitas_Buih	Between Groups	9289.201	2	4644.601	15.088	.000
	Within Groups	4617.463	15	307.831		
	Total	13906.664	17			

Daya_Buih

Duncan[a]

Jenis_Kacang	N	Subset for alpha = 0.05	
		1	2
Kacang Tanah	6	25.0000	
Kacang Kedelai	6		531.6667
Kacang Hijau	6		545.0000
Sig.		1.000	.099

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Stabilitas_Buih

Duncan[a]

Jenis_Kacang	N	Subset for alpha = 0.05	
		1	2
Kacang Tanah	6	16.6665	
Kacang Kedelai	6	36.0280	
Kacang Hijau	6		71.5263
Sig.		.075	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

2. Uji Buih Substitusi

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Konsentrasi	Statistic	df	Sig.	Statistic	df	Sig.
Stabilitas_Buih	0%	.316	6	.061	.771	6	.032
	25%	.253	6	.200*	.890	6	.320
	50%	.188	6	.200*	.974	6	.919
	75%	.301	6	.095	.777	6	.036
	100%	.191	6	.200*	.928	6	.563
Daya_Buih	0%	.315	6	.063	.784	6	.042
	25%	.243	6	.200*	.944	6	.692
	50%	.205	6	.200*	.961	6	.830
	75%	.263	6	.200*	.823	6	.093
	100%	.268	6	.200*	.820	6	.087

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya_Buih	Based on Mean	4.181	4	25	.010
	Based on Median	2.799	4	25	.048
	Based on Median and with adjusted df	2.799	4	14.450	.066
	Based on trimmed mean	4.182	4	25	.010
Stabilitas_Buih	Based on Mean	10.392	4	25	.000
	Based on Median	9.438	4	25	.000
	Based on Median and with adjusted df	9.438	4	7.451	.005
	Based on trimmed mean	10.301	4	25	.000

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Daya_Buih	Between Groups	128720.000	4	32180.000	10.175	.000
	Within Groups	79066.667	25	3162.667		
	Total	207786.667	29			
Stabilitas_Buih	Between Groups	2422.547	4	605.637	161.294	.000
	Within Groups	93.872	25	3.755		
	Total	2516.419	29			

Daya_Buih

Duncan[a]

		Subset for alpha = 0.05	
Konsentrasi	N	1	2
100%	6	500.0000	
50%	6		643.3333
0%	6		660.0000
25%	6		670.0000
75%	6		673.3333
Sig.		1.000	.408

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Stabilitas_Buih

Duncan[a]

		Subset for alpha = 0.05	
Konsentrasi	N	1	2
100%	6	70.8957	
75%	6		92.6087
25%	6		93.0588
50%	6		93.7677
0%	6		93.8873
Sig.		1.000	.307

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

3. Kadar Air

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Konsentrasi	Statistic	df	Sig.	Statistic	df	Sig.
Kadar_air	0%	.271	6	.190	.892	6	.331
	25%	.258	6	.200*	.828	6	.104
	50%	.288	6	.131	.759	6	.025
	75%	.158	6	.200*	.948	6	.724
	100%	.177	6	.200*	.941	6	.670

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Kadar_air	Based on Mean	.533	4	25	.713
	Based on Median	.332	4	25	.854
	Based on Median and with adjusted df	.332	4	14.164	.852
	Based on trimmed mean	.484	4	25	.748

ANOVA

Kadar_air

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	557.050	4	139.262	72.016	.000
Within Groups	48.344	25	1.934		
Total	605.394	29			

Kadar_air

Duncan[a]

Konsentrasi	N	Subset for alpha = 0.05		
		1	2	3
50%	6	13.2150		
100%	6		15.3217	
75%	6		15.3900	
0%	6			22.5900
25%	6			23.9100
Sig.		1.000	.933	.113

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

4. Tesktur

Tests of Normality

	Konsentrasi	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hardness	0%	.184	6	.200*	.942	6	.678
	25%	.296	6	.108	.845	6	.143
	50%	.235	6	.200*	.819	6	.087
	75%	.213	6	.200*	.896	6	.351
	100%	.237	6	.200*	.919	6	.497
Springiness	0%	.289	6	.127	.797	6	.056
	25%	.318	6	.059	.812	6	.075
	50%	.188	6	.200*	.924	6	.534
	75%	.225	6	.200*	.921	6	.510
	100%	.297	6	.107	.880	6	.267
Chewiness	0%	.201	6	.200*	.950	6	.740
	25%	.245	6	.200*	.876	6	.253
	50%	.180	6	.200*	.909	6	.433
	75%	.212	6	.200*	.941	6	.667
	100%	.240	6	.200*	.927	6	.558

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Hardness	Based on Mean	.073	4	25	.990
	Based on Median	.093	4	25	.984
	Based on Median and with adjusted df	.093	4	22.964	.984
	Based on trimmed mean	.068	4	25	.991
Springiness	Based on Mean	8.559	4	25	.000
	Based on Median	4.266	4	25	.009
	Based on Median and with adjusted df	4.266	4	13.720	.019
	Based on trimmed mean	8.026	4	25	.000
Chewiness	Based on Mean	3.506	4	25	.021
	Based on Median	3.280	4	25	.027
	Based on Median and with adjusted df	3.280	4	15.857	.039
	Based on trimmed mean	3.452	4	25	.022

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Hardness	Between Groups	5665.459	4	1416.365	31.016	.000
	Within Groups	1141.644	25	45.666		
	Total	6807.103	29			
Springiness	Between Groups	.841	4	.210	1.563	.215
	Within Groups	3.364	25	.135		
	Total	4.205	29			
Chewiness	Between Groups	.189	4	.047	2.563	.063
	Within Groups	.460	25	.018		
	Total	.649	29			

Hardness

Duncan[a]

Konsentrasi	N	Subset for alpha = 0.05		
		1	2	3
100%	6	69.6647		
75%	6		90.7165	
25%	6			101.2145
50%	6			105.6372
0%	6			106.5135
Sig.		1.000	1.000	.211

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Springiness

Duncan[a]

Konsentrasi	N	Subset for alpha = 0.05
		1
0%	6	2.4445
100%	6	2.7803
50%	6	2.8180
75%	6	2.8830
25%	6	2.9083
Sig.		.059

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Chewiness

Duncan[a]

Konsentrasi	N	Subset for alpha = 0.05	
		1	2
25%	6	.4668	
50%	6	.5373	.5373
100%	6	.5412	.5412
0%	6		.6607
75%	6		.6743
Sig.		.380	.121

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

5. Warna

Tests of Normality

	Konsentrasi	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
L	0%	.308	6	.078	.896	6	.352
	25%	.234	6	.200*	.883	6	.283
	50%	.243	6	.200*	.901	6	.381
	75%	.265	6	.200*	.800	6	.059
	100%	.216	6	.200*	.898	6	.364
a	0%	.151	6	.200*	.947	6	.719
	25%	.251	6	.200*	.929	6	.573
	50%	.246	6	.200*	.904	6	.399
	75%	.231	6	.200*	.840	6	.129
	100%	.288	6	.132	.803	6	.062
b	0%	.129	6	.200*	.983	6	.965
	25%	.235	6	.200*	.917	6	.482
	50%	.278	6	.161	.880	6	.268
	75%	.258	6	.200*	.859	6	.187
	100%	.224	6	.200*	.877	6	.256

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
L	Based on Mean	4.237	4	25	.009
	Based on Median	3.914	4	25	.013
	Based on Median and with adjusted df	3.914	4	22.351	.015
	Based on trimmed mean	4.221	4	25	.010
a	Based on Mean	5.654	4	25	.002
	Based on Median	4.109	4	25	.011
	Based on Median and with adjusted df	4.109	4	10.896	.029
	Based on trimmed mean	5.420	4	25	.003
b	Based on Mean	5.971	4	25	.002
	Based on Median	5.052	4	25	.004
	Based on Median and with adjusted df	5.052	4	17.147	.007
	Based on trimmed mean	5.921	4	25	.002

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
L	Between Groups	79.619	4	19.905	18.687	.000
	Within Groups	26.629	25	1.065		
	Total	106.248	29			
a	Between Groups	2.339	4	.585	50.490	.000
	Within Groups	.290	25	.012		
	Total	2.628	29			
b	Between Groups	62.931	4	15.733	15.002	.000
	Within Groups	26.218	25	1.049		
	Total	89.149	29			

L

Duncan[a]

Konsentrasi	N	Subset for alpha = 0.05	
		1	2
0%	6	93.5333	
75%	6	93.6267	
100%	6	93.9683	
25%	6		96.9633
50%	6		97.0783
Sig.		.498	.849

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

a

Duncan[a]

Konsentrasi	N	Subset for alpha = 0.05		
		1	2	3
0%	6	-1.0283		
25%	6		-.8967	
50%	6		-.8217	
75%	6			-.3833
100%	6			-.3417
Sig.		1.000	.239	.509

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

b

Duncan[a]

Konsentrasi	N	Subset for alpha = 0.05		
		1	2	3
100%	6	6.9033		
75%	6	7.0833		
50%	6	7.4117	7.4117	
25%	6		8.5800	
0%	6			10.8083
Sig.		.426	.059	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

6. Uji Sensori

Test Statistics[a,b]

	Warna	Rasa	Tesktur	Keseluruhan
Kruskal-Wallis H	1.437	7.634	15.749	10.685
df	4	4	4	4
Asymp. Sig.	.838	.106	.003	.030

a. Kruskal Wallis Test

b. Grouping Variable: Konsentrasi

- 0% vs 25%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	334.000	439.000
Wilcoxon W	799.000	904.000
Z	-1.763	-.169
Asymp. Sig. (2-tailed)	.078	.866

a. Grouping Variable: Konsentrasi

- 0% vs 50%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	446.000	375.500
Wilcoxon W	911.000	840.500
Z	-.061	-1.140
Asymp. Sig. (2-tailed)	.951	.254

a. Grouping Variable: Konsentrasi

- 0% vs 75%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	397.500	291.000
Wilcoxon W	862.500	756.000
Z	-.815	-2.427
Asymp. Sig. (2-tailed)	.415	.015

a. Grouping Variable: Konsentrasi

- 0% vs 100%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	287.000	439.000
Wilcoxon W	752.000	904.000
Z	-2.483	-.169
Asymp. Sig. (2-tailed)	.013	.866

a. Grouping Variable: Konsentrasi

- 25% vs 50%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	344.000	358.500
Wilcoxon W	809.000	823.500
Z	-1.611	-1.407
Asymp. Sig. (2-tailed)	.107	.160

a. Grouping Variable: Konsentrasi

- 25% vs 75%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	268.500	269.000
Wilcoxon W	733.500	734.000
Z	-2.769	-2.772
Asymp. Sig. (2-tailed)	.006	.006

a. Grouping Variable: Konsentrasi

- 25% vs 100%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	388.500	427.000
Wilcoxon W	853.500	892.000
Z	-.944	-.353
Asymp. Sig. (2-tailed)	.345	.724

a. Grouping Variable: Konsentrasi

- 50% vs 75%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	391.500	345.000
Wilcoxon W	856.500	810.000
Z	-.899	-1.650
Asymp. Sig. (2-tailed)	.369	.099

a. Grouping Variable: Konsentrasi

- 50% vs 100%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	294.000	382.500
Wilcoxon W	759.000	847.500
Z	-2.368	-1.038
Asymp. Sig. (2-tailed)	.018	.299

a. Grouping Variable: Konsentrasi

- 75% vs 100%

Test Statistics[a]

	Tesktur	Keseluruhan
Mann-Whitney U	225.000	291.500
Wilcoxon W	690.000	756.500
Z	-3.421	-2.430
Asymp. Sig. (2-tailed)	.001	.015

a. Grouping Variable: Konsentrasi

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