

8. LAMPIRAN

Lampiran 1. Output Uji Normalitas

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kadar_air	.148	18	.200*	.949	18	.416
ketebalan	.278	18	.001	.826	18	.004
L	.153	18	.200*	.903	18	.065
a	.131	18	.200*	.947	18	.383
b	.280	18	.001	.772	18	.001
waktu_rehidrasi	.175	18	.148	.918	18	.120
kuat_tarik	.325	18	.000	.714	18	.000

a. Lilliefors Significance Correction
*. This is a lower bound of the true significance.

Output Hitung Manual Normalitas Data

Indikator	Kolm-Smirnov Hitung	Kolm-Smirnov Tabel	Kesimpulan
ketebalan (n = 18)	0.594	1.167	Sebaran data Normal
b (n = 18)	0.217	1.167	Sebaran data Normal
kuat_tarik (n = 18)	0.559	1.167	Sebaran data Normal

Lampiran 2. Output Uji Normalitas Nilai h*

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
h	.293	15	.001	.843	15	.014

a. Lilliefors Significance Correction

Output Hitung Manual Normalitas Data Nilai h*

Indikator	Kolm-Smirnov Hitung	Kolm-Smirnov Tabel	Kesimpulan
h (n = 15)	0.616	1.278	Sebaran data Normal

Lampiran 3. Output Uji Homogenitas

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
kadar_air	4.646	5	12	.014
ketebalan	6.400	5	12	.004
L	5.712	5	12	.006
a	2.514	5	12	.089
b	3.735	5	12	.029
waktu_rehidrasi	2.958	5	12	.057
kuat_tarik	3.355	5	12	.040

Output Hitung Manual Homogenitas Data

Indikator	Levene Hitung	Levene Tabel	Kesimpulan
kadar_air (df = 5)	0.815	11.070	Varian Homogen
ketebalan (df = 5)	10.155	11.070	Varian Homogen
L (df = 5)	1.534	11.070	Varian Homogen
b (df = 5)	2.915	11.070	Varian Homogen
kuat_tarik (df = 5)	9.079	11.070	Varian Homogen

Lampiran 4. Output Uji Homogenitas Nilai h*

Test of Homogeneity of Variances

h

Levene Statistic	df1	df2	Sig.
5.627	4	10	.012

Output Hitung Manual Homogenitas Data

Indikator	Levene Hitung	Levene Tabel	Kesimpulan
h (df = 4)	2.093	9.488	Varian Homogen

Lampiran 5. Output Uji *Oneway* ANOVA

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar_air	Between Groups	13.946	5	2.789	1.236	.351
	Within Groups	27.074	12	2.256		
	Total	41.020	17			
ketebalan	Between Groups	.001	5	.000	12.000	.000
	Within Groups	.000	12	.000		
	Total	.002	17			
L	Between Groups	184.269	5	36.854	7.946	.002
	Within Groups	55.659	12	4.638		
	Total	239.928	17			
a	Between Groups	.123	5	.025	2.235	.118
	Within Groups	.132	12	.011		
	Total	.256	17			
b	Between Groups	43.388	5	8.678	160.072	.000
	Within Groups	.651	12	.054		
	Total	44.039	17			
waktu_rehidrasi	Between Groups	1869.504	5	373.901	243.125	.000
	Within Groups	18.455	12	1.538		
	Total	1887.958	17			
kuat_tarik	Between Groups	.217	5	.043	300.315	.000
	Within Groups	.002	12	.000		
	Total	.219	17			

Lampiran 6. Output Uji *Oneway* ANOVA nilai h*

ANOVA

h

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1383.765	4	345.941	42.641	.000
Within Groups	81.129	10	8.113		
Total	1464.894	14			

Lampiran 7. Output Uji Posthoc Duncan

kadar_air

Duncan^a

perlakuan	N	Subset for alpha = 0.05
		1
T000	3	12.2900
T025	3	12.7600
T050	3	13.6300
T075	3	13.9400
kontrol	3	14.4100
T100	3	14.8100
Sig.		.088

Means for groups in homogeneous subsets are displayed.

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

ketebalan

Duncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
kontrol	3	.0500			
T100	3	.0533	.0533		
T075	3	.0567	.0567	.0567	
T050	3		.0600	.0600	
T025	3			.0633	
T000	3				.0767
Sig.		.125	.125	.125	1.000

Means for groups in homogeneous subsets are displayed.

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

L

Duncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
T000	3	75.4867		
T050	3		80.0700	
T025	3		80.5167	
T075	3		81.8200	81.8200
T100	3		84.1233	84.1233
kontrol	3			85.4567
Sig.		1.000	.053	.072

Means for groups in homogeneous subsets are displayed.

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

a

Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
T100	3	.8300	
T050	3	.8533	
T075	3	.8867	.8867
T025	3	.9600	.9600
T000	3	.9833	.9833
kontrol	3		1.0700
Sig.		.128	.070

Means for groups in homogeneous subsets are displayed.

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

bDuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
kontrol	3	-2.3367			
T100	3		.8167		
T075	3		.9633		
T050	3			1.8533	
T000	3			1.9267	1.9267
T025	3				2.3200
Sig.		1.000	.455	.706	.061

Means for groups in homogeneous subsets are displayed.

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

waktu_rehidrasiDuncan^a

perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
kontrol	3	18.3800				
T100	3		25.7667			
T075	3			29.3600		
T050	3				34.5033	
T025	3					45.1200
T000	3					46.9800
Sig.		1.000	1.000	1.000	1.000	.091

Means for groups in homogeneous subsets are displayed.

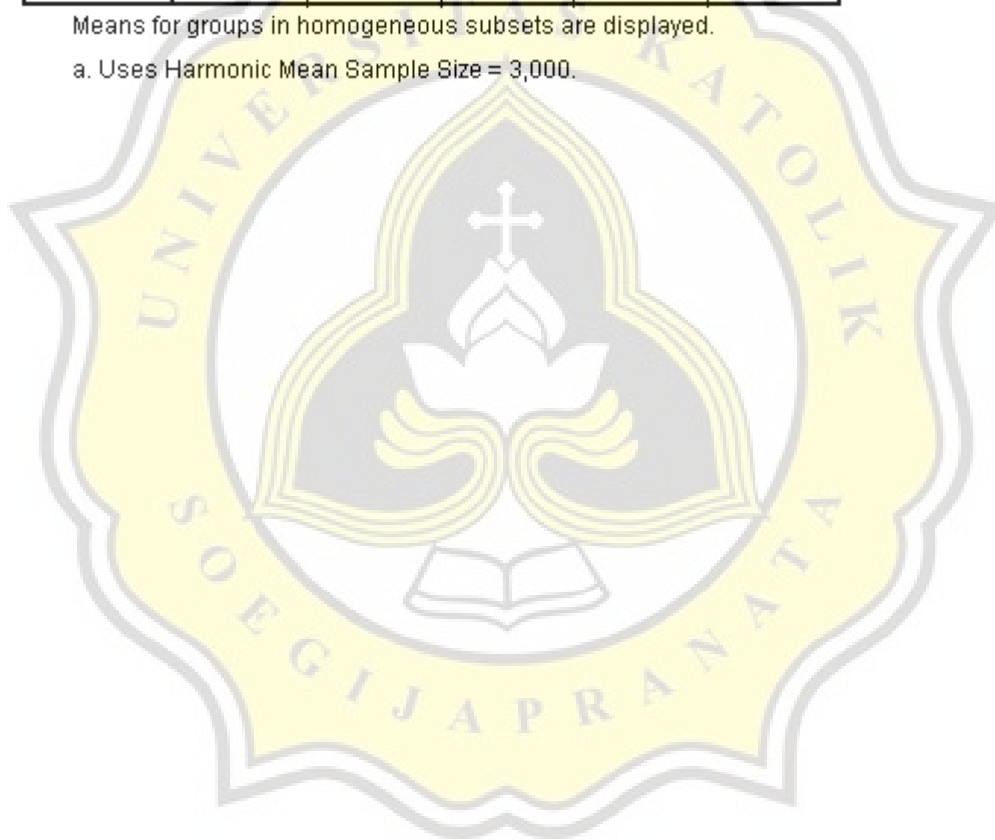
a. Uses Harmonic Mean Sample Size = 3,000.

kuat_tarikDuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
kontrol	3	.0400			
T100	3	.0400			
T075	3	.0500	.0500		
T050	3		.0633		
T025	3			.1600	
T000	3				.3433
Sig.		.352	.199	1.000	1.000

Means for groups in homogeneous subsets are displayed.

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



Lampiran 8. Output Uji T – Test

Kontrol vs T100

Group Statistics

perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h kontrol	3	294.6433	.57588	.33248
T100	3	44.4933	5.26476	3.03961

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower	Upper	
h	Equal variances assumed	6.875	.059	81.809	4	.000	250.15000	3.05774	241.66035	258.63965
	Equal variances not assumed			81.809	2.048	.000	250.15000	3.05774	237.28385	263.01615

Kontrol vs T075

Group Statistics

perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h kontrol	3	294.6433	.57588	.33248
T075	3	47.3467	3.39214	1.95845

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower	Upper	
h	Equal variances assumed	9.071	.039	124.490	4	.000	247.29667	1.98648	241.78132	252.81201
	Equal variances not assumed			124.490	2.115	.000	247.29667	1.98648	239.18046	255.41288

Kontrol vs T050

Group Statistics

perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h kontrol	3	294.6433	.57588	.33248
T050	3	65.3067	.38657	.22318

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower	Upper	
h	Equal variances assumed	.260	.637	572.706	4	.000	229.33667	.40044	228.22486	230.44848
	Equal variances not assumed			572.706	3.498	.000	229.33667	.40044	228.15904	230.51429

Kontrol vs T025

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	kontrol	3	294.6433	.57588	.33248
	T025	3	67.4333	1.04333	.60237

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
h	Equal variances assumed	1.322	.314	330.231	4	.000	227.21000	.68803	225.29972	229.12028
	Equal variances not assumed			330.231	3.115	.000	227.21000	.68803	225.06545	229.35455

Kontrol vs T000

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	kontrol	3	294.6433	.57588	.33248
	T000	3	62.9200	.31953	.18448

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
h	Equal variances assumed	.644	.467	609.423	4	.000	231.72333	.38023	230.66763	232.77903
	Equal variances not assumed			609.423	3.125	.000	231.72333	.38023	230.54016	232.90651

T100 vs T075

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T100	3	44.4933	5.26476	3.03961
	T075	3	47.3467	3.39214	1.95845

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
h	Equal variances assumed	.749	.436	-.789	4	.474	-2.85333	3.61591	-12.89270	7.18604
	Equal variances not assumed			-.789	3.416	.481	-2.85333	3.61591	-13.60654	7.89988

T100 vs T050

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T100	3	44.4933	5.26476	3.03961
	T050	3	65.3067	.38657	.22318

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower		Upper
h	Equal variances assumed	7.385	.053	-6.829	4	.002	-20.81333	3.04780	-29.27537	-12.35130
	Equal variances not assumed			-6.829	2.022	.020	-20.81333	3.04780	-33.79379	-7.83287

T100 vs T025

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T100	3	44.4933	5.26476	3.03961
	T025	3	67.4333	1.04333	.60237

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower		Upper
h	Equal variances assumed	5.377	.081	-7.403	4	.002	-22.94000	3.09872	-31.54344	-14.33656
	Equal variances not assumed			-7.403	2.157	.014	-22.94000	3.09872	-35.38538	-10.49462

T100 vs T000

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T100	3	44.4933	5.26476	3.03961
	T000	3	62.9200	.31953	.18448

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower		Upper
h	Equal variances assumed	7.620	.051	-6.051	4	.004	-18.42667	3.04521	-26.88151	-9.97182
	Equal variances not assumed			-6.051	2.015	.026	-18.42667	3.04521	-31.43773	-5.41560

T075 vs T050

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T075	3	47.3467	3.39214	1.95845
	T050	3	65.3067	.38657	.22318

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower		Upper
h	Equal variances assumed	10.436	.032	-9.112	4	.001	-17.96000	1.97113	-23.43274	-12.48726
	Equal variances not assumed			-9.112	2.052	.011	-17.96000	1.97113	-26.23866	-9.68134

T075 vs T025

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T075	3	47.3467	3.39214	1.95845
	T025	3	67.4333	1.04333	.60237

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower		Upper
h	Equal variances assumed	5.847	.073	-9.803	4	.001	-20.08667	2.04900	-25.77559	-14.39774
	Equal variances not assumed			-9.803	2.375	.006	-20.08667	2.04900	-27.69432	-12.47901

T075 vs T000

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T075	3	47.3467	3.39214	1.95845
	T000	3	62.9200	.31953	.18448

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower		Upper
h	Equal variances assumed	10.969	.030	-7.917	4	.001	-15.57333	1.96712	-21.03495	-10.11172
	Equal variances not assumed			-7.917	2.035	.015	-15.57333	1.96712	-23.89733	-7.24934

T050vs T025

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T050	3	65.3067	.38657	.22318
	T025	3	67.4333	1.04333	.60237

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
h	Equal variances assumed	2.863	.166	-3.311	4	.030	-2.12667	.64238	-3.91021	-.34313
	Equal variances not assumed			-3.311	2.539	.058	-2.12667	.64238	-4.39795	.14461

T050vs T000

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T050	3	65.3067	.38657	.22318
	T000	3	62.9200	.31953	.18448

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
h	Equal variances assumed	.272	.630	8.242	4	.001	2.38667	.28956	1.58272	3.19061
	Equal variances not assumed			8.242	3.863	.001	2.38667	.28956	1.57137	3.20196

T025vs T000

Group Statistics

	perlakuan	N	Mean	Std. Deviation	Std. Error Mean
h	T025	3	67.4333	1.04333	.60237
	T000	3	62.9200	.31953	.18448

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
h	Equal variances assumed	3.624	.130	7.164	4	.002	4.51333	.62998	2.76422	6.26244
	Equal variances not assumed			7.164	2.372	.012	4.51333	.62998	2.17193	6.85474

Lampiran 9. Output Uji Korelasi

Correlations

		kadar_air	ketebalan	L	a	b	h	waktu_rehidrasi	kuat_tarik
kadar_air	Pearson Correlation	1	-.683**	.736**	-.621*	-.632*	-.479	-.676**	-.579*
	Sig. (2-tailed)		.005	.002	.013	.012	.071	.006	.024
	N	15	15	15	15	15	15	15	15
ketebalan	Pearson Correlation	-.683**	1	-.748**	.390	.528*	.499	.806**	.860**
	Sig. (2-tailed)	.005		.001	.150	.043	.059	.000	.000
	N	15	15	15	15	15	15	15	15
L	Pearson Correlation	.736**	-.748**	1	-.536*	-.535*	-.482	-.721**	-.760**
	Sig. (2-tailed)	.002	.001		.039	.040	.069	.002	.001
	N	15	15	15	15	15	15	15	15
a	Pearson Correlation	-.621*	.390	-.536*	1	.587*	.258	.524*	.468
	Sig. (2-tailed)	.013	.150	.039		.021	.354	.045	.079
	N	15	15	15	15	15	15	15	15
b	Pearson Correlation	-.632*	.528*	-.535*	.587*	1	.921**	.850**	.557*
	Sig. (2-tailed)	.012	.043	.040	.021		.000	.000	.031
	N	15	15	15	15	15	15	15	15
h	Pearson Correlation	-.479	.499	-.482	.258	.921**	1	.807**	.525*
	Sig. (2-tailed)	.071	.059	.069	.354	.000		.000	.045
	N	15	15	15	15	15	15	15	15
waktu_rehidrasi	Pearson Correlation	-.676**	.806**	-.721**	.524*	.850**	.807**	1	.861**
	Sig. (2-tailed)	.006	.000	.002	.045	.000	.000		.000
	N	15	15	15	15	15	15	15	15
kuat_tarik	Pearson Correlation	-.579*	.860**	-.760**	.468	.557*	.525*	.861**	1
	Sig. (2-tailed)	.024	.000	.001	.079	.031	.045	.000	
	N	15	15	15	15	15	15	15	15

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

* . Correlation is significant at the 0.05 level (2-tailed).

Lampiran 10. Output Uji Kruskal Wallis

Ranks

	perlakuan	N	Mean Rank
warna	kontrol	75	173.49
	T100	75	204.29
	T075	75	249.69
	T050	75	252.21
	T025	75	250.79
	T000	75	222.51
	Total	450	
	rasa	kontrol	75
T100		75	154.99
T075		75	227.37
T050		75	225.77
T025		75	264.30
T000		75	254.83
Total		450	
aftertaste		kontrol	75
	T100	75	259.57
	T075	75	225.21
	T050	75	210.53
	T025	75	213.53
	T000	75	197.31
	Total	450	
	aroma	kontrol	75
T100		75	241.56
T075		75	253.28
T050		75	272.79
T025		75	253.83
T000		75	250.23
Total		450	
tekstur		kontrol	75
	T100	75	180.59
	T075	75	246.66
	T050	75	259.75
	T025	75	253.53
	T000	75	304.21
	Total	450	
	elastisitas	kontrol	75
T100		75	258.52
T075		75	188.99
T050		75	172.95
T025		75	192.20
T000		75	186.09
Total		450	
keseluruhan		kontrol	75
	T100	75	263.01
	T075	75	239.87
	T050	75	209.55
	T025	75	198.25
	T000	75	194.27
	Total	450	

Test Statistics^{a,b}

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Chi-Square	23.481	34.621	14.249	125.706	112.761	112.570	19.010
df	5	5	5	5	5	5	5
Asymp. Sig.	.000	.000	.014	.000	.000	.000	.002

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan



Lampiran 11. Output Uji Mann Whitney

Kontrol vs T100

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	kontrol	75	69.43	5207.50
	T100	75	81.57	6117.50
	Total	150		
rasa	kontrol	75	87.76	6582.00
	T100	75	63.24	4743.00
	Total	150		
aftertaste	kontrol	75	72.64	5448.00
	T100	75	78.36	5877.00
	Total	150		
aroma	kontrol	75	47.41	3555.50
	T100	75	103.59	7769.50
	Total	150		
tekstur	kontrol	75	62.29	4671.50
	T100	75	88.71	6653.50
	Total	150		
elastisitas	kontrol	75	93.74	7030.50
	T100	75	57.26	4294.50
	Total	150		
keseluruhan	kontrol	75	73.05	5478.50
	T100	75	77.95	5846.50
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2357.500	1893.000	2598.000	705.500	1821.500	1444.500	2628.500
Wilcoxon W	5207.500	4743.000	5448.000	3555.500	4671.500	4294.500	5478.500
Z	-1.773	-3.555	-.871	-8.225	-3.832	-5.256	-.712
Asymp. Sig. (2-tailed)	.076	.000	.384	.000	.000	.000	.477

a. Grouping Variable: perlakuan

Kontrol vs T075

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	kontrol	75	59.81	4486.00
	T075	75	91.19	6839.00
	Total	150		
rasa	kontrol	75	75.27	5645.50
	T075	75	75.73	5679.50
	Total	150		
aftertaste	kontrol	75	79.22	5941.50
	T075	75	71.78	5383.50
	Total	150		
aroma	kontrol	75	47.24	3543.00
	T075	75	103.76	7782.00
	Total	150		
tekstur	kontrol	75	51.33	3850.00
	T075	75	99.67	7475.00
	Total	150		
elastisitas	kontrol	75	102.95	7721.50
	T075	75	48.05	3603.50
	Total	150		
keseluruhan	kontrol	75	76.89	5767.00
	T075	75	74.11	5558.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	1636.000	2795.500	2533.500	693.000	1000.000	753.500	2708.000
Wilcoxon W	4486.000	5645.500	5383.500	3543.000	3850.000	3603.500	5558.000
Z	-4.552	-.066	-1.165	-8.211	-6.985	-7.872	-.403
Asymp. Sig. (2-tailed)	.000	.947	.244	.000	.000	.000	.687

a. Grouping Variable: perlakuan

Kontrol vs T050

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	kontrol	75	64.19	4814.50
	T050	75	86.81	6510.50
	Total	150		
rasa	kontrol	75	75.51	5663.50
	T050	75	75.49	5661.50
	Total	150		
aftertaste	kontrol	75	81.12	6084.00
	T050	75	69.88	5241.00
	Total	150		
aroma	kontrol	75	45.21	3390.50
	T050	75	105.79	7934.50
	Total	150		
tekstur	kontrol	75	50.27	3770.50
	T050	75	100.73	7554.50
	Total	150		
elastisitas	kontrol	75	104.49	7837.00
	T050	75	46.51	3488.00
	Total	150		
keseluruhan	kontrol	75	81.98	6148.50
	T050	75	69.02	5176.50
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	1964.500	2811.500	2391.000	540.500	920.500	638.000	2326.500
Wilcoxon W	4814.500	5661.500	5241.000	3390.500	3770.500	3488.000	5176.500
Z	-3.257	-.004	-1.681	-8.758	-7.262	-8.316	-1.878
Asymp. Sig. (2-tailed)	.001	.997	.093	.000	.000	.000	.060

a. Grouping Variable: perlakuan

Kontrol vs T025

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	kontrol	75	64.57	4843.00
	T025	75	86.43	6482.00
	Total	150		
rasa	kontrol	75	68.74	5155.50
	T025	75	82.26	6169.50
	Total	150		
aftertaste	kontrol	75	81.64	6123.00
	T025	75	69.36	5202.00
	Total	150		
aroma	kontrol	75	46.64	3498.00
	T025	75	104.36	7827.00
	Total	150		
tekstur	kontrol	75	51.67	3875.00
	T025	75	99.33	7450.00
	Total	150		
elastisitas	kontrol	75	103.12	7734.00
	T025	75	47.88	3591.00
	Total	150		
keseluruhan	kontrol	75	83.69	6277.00
	T025	75	67.31	5048.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	1993.000	2305.500	2352.000	648.000	1025.000	741.000	2198.000
Wilcoxon W	4843.000	5155.500	5202.000	3498.000	3875.000	3591.000	5048.000
Z	-3.148	-1.994	-2.010	-8.414	-6.863	-7.917	-2.361
Asymp. Sig. (2-tailed)	.002	.046	.044	.000	.000	.000	.018

a. Grouping Variable: perlakuan

Kontrol vs T000

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	kontrol	75	67.48	5061.00
	T000	75	83.52	6264.00
	Total	150		
rasa	kontrol	75	70.46	5284.50
	T000	75	80.54	6040.50
	Total	150		
aftertaste	kontrol	75	84.22	6316.50
	T000	75	66.78	5008.50
	Total	150		
aroma	kontrol	75	46.82	3511.50
	T000	75	104.18	7813.50
	Total	150		
tekstur	kontrol	75	44.71	3353.00
	T000	75	106.29	7972.00
	Total	150		
elastisitas	kontrol	75	101.94	7645.50
	T000	75	49.06	3679.50
	Total	150		
keseluruhan	kontrol	75	84.44	6333.00
	T000	75	66.56	4992.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2211.000	2434.500	2158.500	661.500	503.000	829.500	2142.000
Wilcoxon W	5061.000	5284.500	5008.500	3511.500	3353.000	3679.500	4992.000
Z	-2.323	-1.476	-2.810	-8.398	-8.860	-7.575	-2.575
Asymp. Sig. (2-tailed)	.020	.140	.005	.000	.000	.000	.010

a. Grouping Variable: perlakuan

T100 vs T075

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T100	75	66.68	5001.00
	T075	75	84.32	6324.00
	Total	150		
rasa	T100	75	63.14	4735.50
	T075	75	87.86	6589.50
	Total	150		
aftertaste	T100	75	81.20	6090.00
	T075	75	69.80	5235.00
	Total	150		
aroma	T100	75	73.19	5489.50
	T075	75	77.81	5835.50
	Total	150		
tekstur	T100	75	63.81	4785.50
	T075	75	87.19	6539.50
	Total	150		
elastisitas	T100	75	87.91	6593.00
	T075	75	63.09	4732.00
	Total	150		
keseluruhan	T100	75	79.37	5953.00
	T075	75	71.63	5372.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2151.000	1885.500	2385.000	2639.500	1935.500	1882.000	2522.000
Wilcoxon W	5001.000	4735.500	5235.000	5489.500	4785.500	4732.000	5372.000
Z	-2.542	-3.575	-1.691	-.704	-3.366	-3.584	-1.121
Asymp. Sig. (2-tailed)	.011	.000	.091	.482	.001	.000	.262

a. Grouping Variable: perlakuan

T100 vs T050

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T100	75	67.62	5071.50
	T050	75	83.38	6253.50
	Total	150		
rasa	T100	75	63.85	4789.00
	T050	75	87.15	6536.00
	Total	150		
aftertaste	T100	75	82.66	6199.50
	T050	75	68.34	5125.50
	Total	150		
aroma	T100	75	69.59	5219.50
	T050	75	81.41	6105.50
	Total	150		
tekstur	T100	75	61.95	4646.00
	T050	75	89.05	6679.00
	Total	150		
elastisitas	T100	75	90.33	6774.50
	T050	75	60.67	4550.50
	Total	150		
keseluruhan	T100	75	84.41	6330.50
	T050	75	66.59	4994.50
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2221.500	1939.000	2275.500	2369.500	1796.000	1700.500	2144.500
Wilcoxon W	5071.500	4789.000	5125.500	5219.500	4646.000	4550.500	4994.500
Z	-2.269	-3.361	-2.079	-1.779	-3.899	-4.276	-2.585
Asymp. Sig. (2-tailed)	.023	.001	.038	.075	.000	.000	.010

a. Grouping Variable: perlakuan

T100 vs T025

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T100	75	67.99	5099.50
	T025	75	83.01	6225.50
	Total	150		
rasa	T100	75	57.69	4326.50
	T025	75	93.31	6998.50
	Total	150		
aftertaste	T100	75	83.55	6266.50
	T025	75	67.45	5058.50
	Total	150		
aroma	T100	75	73.29	5497.00
	T025	75	77.71	5828.00
	Total	150		
tekstur	T100	75	63.27	4745.50
	T025	75	87.73	6579.50
	Total	150		
elastisitas	T100	75	87.15	6536.50
	T025	75	63.85	4788.50
	Total	150		
keseluruhan	T100	75	86.26	6469.50
	T025	75	64.74	4855.50
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2249.500	1476.500	2208.500	2647.000	1895.500	1938.500	2005.500
Wilcoxon W	5099.500	4326.500	5058.500	5497.000	4745.500	4788.500	4855.500
Z	-2.161	-5.160	-2.443	-.678	-3.511	-3.354	-3.105
Asymp. Sig. (2-tailed)	.031	.000	.015	.498	.000	.001	.002

a. Grouping Variable: perlakuan

T100 vs T000

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T100	75	72.43	5432.50
	T000	75	78.57	5892.50
	Total	150		
rasa	T100	75	59.07	4430.50
	T000	75	91.93	6894.50
	Total	150		
aftertaste	T100	75	85.80	6435.00
	T000	75	65.20	4890.00
	Total	150		
aroma	T100	75	73.89	5541.50
	T000	75	77.11	5783.50
	Total	150		
tekstur	T100	75	54.85	4113.50
	T000	75	96.15	7211.50
	Total	150		
elastisitas	T100	75	87.87	6590.50
	T000	75	63.13	4734.50
	Total	150		
keseluruhan	T100	75	87.01	6526.00
	T000	75	63.99	4799.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2582.500	1680.500	2040.000	2691.500	1263.500	1884.500	1949.000
Wilcoxon W	5432.500	4430.500	4890.000	5541.500	4113.500	4734.500	4799.000
Z	-.881	-4.748	-3.096	-.503	-5.975	-3.555	-3.319
Asymp. Sig. (2-tailed)	.379	.000	.002	.615	.000	.000	.001

a. Grouping Variable: perlakuan

T075 vs T050

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T075	75	72.84	5463.00
	T050	75	78.16	5862.00
	Total	150		
rasa	T075	75	75.81	5685.50
	T050	75	75.19	5639.50
	Total	150		
aftertaste	T075	75	78.11	5858.00
	T050	75	72.89	5467.00
	Total	150		
aroma	T075	75	72.05	5403.50
	T050	75	78.95	5921.50
	Total	150		
tekstur	T075	75	72.95	5471.00
	T050	75	78.05	5854.00
	Total	150		
elastisitas	T075	75	78.60	5895.00
	T050	75	72.40	5430.00
	Total	150		
keseluruhan	T075	75	80.76	6057.00
	T050	75	70.24	5268.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2613.000	2789.500	2617.000	2553.500	2621.000	2580.000	2418.000
Wilcoxon W	5463.000	5639.500	5467.000	5403.500	5471.000	5430.000	5268.000
Z	-.776	-.089	-.764	-1.028	-.744	-.910	-1.523
Asymp. Sig. (2-tailed)	.438	.929	.445	.304	.457	.363	.128

a. Grouping Variable: perlakuan

T075 vs T025

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T075	75	73.47	5510.00
	T025	75	77.53	5815.00
	Total	150		
rasa	T075	75	69.08	5181.00
	T025	75	81.92	6144.00
	Total	150		
aftertaste	T075	75	77.36	5802.00
	T025	75	73.64	5523.00
	Total	150		
aroma	T075	75	75.48	5661.00
	T025	75	75.52	5664.00
	Total	150		
tekstur	T075	75	74.10	5557.50
	T025	75	76.90	5767.50
	Total	150		
elastisitas	T075	75	74.71	5603.50
	T025	75	76.29	5721.50
	Total	150		
keseluruhan	T075	75	82.36	6177.00
	T025	75	68.64	5148.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2660.000	2331.000	2673.000	2811.000	2707.500	2753.500	2298.000
Wilcoxon W	5510.000	5181.000	5523.000	5661.000	5557.500	5603.500	5148.000
Z	-.592	-1.886	-.580	-.006	-.406	-.229	-1.974
Asymp. Sig. (2-tailed)	.554	.059	.562	.995	.684	.819	.048

a. Grouping Variable: perlakuan

T075 vs T000

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T075	75	79.88	5991.00
	T000	75	71.12	5334.00
	Total	150		
rasa	T075	75	70.89	5317.00
	T000	75	80.11	6008.00
	Total	150		
aftertaste	T075	75	80.16	6012.00
	T000	75	70.84	5313.00
	Total	150		
aroma	T075	75	76.19	5714.00
	T000	75	74.81	5611.00
	Total	150		
tekstur	T075	75	64.75	4856.50
	T000	75	86.25	6468.50
	Total	150		
elastisitas	T075	75	76.53	5740.00
	T000	75	74.47	5585.00
	Total	150		
keseluruhan	T075	75	83.02	6226.50
	T000	75	67.98	5098.50
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2484.000	2467.000	2463.000	2761.000	2006.500	2735.000	2248.500
Wilcoxon W	5334.000	5317.000	5313.000	5611.000	4856.500	5585.000	5098.500
Z	-1.265	-1.345	-1.437	-.210	-3.162	-.301	-2.165
Asymp. Sig. (2-tailed)	.206	.179	.151	.834	.002	.763	.030

a. Grouping Variable: perlakuan

T050 vs T025

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T050	75	75.45	5658.50
	T025	75	75.55	5666.50
	Total	150		
rasa	T050	75	69.19	5189.00
	T025	75	81.81	6136.00
	Total	150		
aftertaste	T050	75	74.43	5582.50
	T025	75	76.57	5742.50
	Total	150		
aroma	T050	75	78.91	5918.00
	T025	75	72.09	5407.00
	Total	150		
tekstur	T050	75	76.43	5732.00
	T025	75	74.57	5593.00
	Total	150		
elastisitas	T050	75	71.85	5388.50
	T025	75	79.15	5936.50
	Total	150		
keseluruhan	T050	75	77.60	5820.00
	T025	75	73.40	5505.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2808.500	2339.000	2732.500	2557.000	2743.000	2538.500	2655.000
Wilcoxon W	5658.500	5189.000	5582.500	5407.000	5593.000	5388.500	5505.000
Z	-.016	-1.846	-.318	-1.018	-.270	-1.063	-.608
Asymp. Sig. (2-tailed)	.987	.065	.750	.309	.787	.288	.543

a. Grouping Variable: perlakuan

T050 vs T000

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T050	75	80.42	6031.50
	T000	75	70.58	5293.50
	Total	150		
rasa	T050	75	70.75	5306.50
	T000	75	80.25	6018.50
	Total	150		
aftertaste	T050	75	76.99	5774.00
	T000	75	74.01	5551.00
	Total	150		
aroma	T050	75	79.73	5979.50
	T000	75	71.27	5345.50
	Total	150		
tekstur	T050	75	67.49	5061.50
	T000	75	83.51	6263.50
	Total	150		
elastisitas	T050	75	73.53	5514.50
	T000	75	77.47	5810.50
	Total	150		
keseluruhan	T050	75	78.09	5857.00
	T000	75	72.91	5468.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2443.500	2456.500	2701.000	2495.500	2211.500	2664.500	2618.000
Wilcoxon W	5293.500	5306.500	5551.000	5345.500	5061.500	5514.500	5468.000
Z	-1.427	-1.384	-.441	-1.275	-2.368	-.575	-.750
Asymp. Sig. (2-tailed)	.154	.166	.659	.202	.018	.565	.453

a. Grouping Variable: perlakuan

T025 vs T000

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
warna	T025	75	80.27	6020.50
	T000	75	70.73	5304.50
	Total	150		
rasa	T025	75	76.99	5774.50
	T000	75	74.01	5550.50
	Total	150		
aftertaste	T025	75	78.52	5889.00
	T000	75	72.48	5436.00
	Total	150		
aroma	T025	75	76.15	5711.50
	T000	75	74.85	5613.50
	Total	150		
tekstur	T025	75	66.99	5024.50
	T000	75	84.01	6300.50
	Total	150		
elastisitas	T025	75	77.03	5777.50
	T000	75	73.97	5547.50
	Total	150		
keseluruhan	T025	75	76.16	5712.00
	T000	75	74.84	5613.00
	Total	150		

Test Statistics^a

	warna	rasa	aftertaste	aroma	tekstur	elastisitas	keseluruhan
Mann-Whitney U	2454.500	2700.500	2586.000	2763.500	2174.500	2697.500	2763.000
Wilcoxon W	5304.500	5550.500	5436.000	5613.500	5024.500	5547.500	5613.000
Z	-1.382	-.440	-.969	-.201	-2.507	-.444	-.190
Asymp. Sig. (2-tailed)	.167	.660	.333	.840	.012	.657	.849

a. Grouping Variable: perlakuan

Lampiran 12. Worksheet dan Scoresheet Uji Skor Mutu**Worksheet Uji Sensori collagen paper**

Tanggal Uji Sensori : Desember 2022

Jenis Sampel : collagen paper

Identifikasi Sampel	Kode
rice paper Komersial	Q
collagen paper → (konsentrasi Tapioka 100%)	A
collagen paper → (konsentrasi Tapioka 75%)	B
collagen paper → (konsentrasi Tapioka 50%)	C
collagen paper → (konsentrasi Tapioka 25%)	D
collagen paper → (konsentrasi Tapioka 0%)	E

Kode kombinasi urutan penyajian :

QABCDE = 1 QAEBCD = 6

QBCDEA = 2 QABECD = 7

QCDEAB = 3 QABCED = 8

QDEABC = 4 QBACDE = 9

QEABCD = 5 QBCADE = 10

Penyajian sebanyak 5 booth :

BOOTH	PANELIS	KODE SAMPEL						URUTAN KOMBINASI
		Q	A	B	C	D	E	
I	1	868	269	622	414	282	787	1
II	2	857	618	308	595	522	406	2
III	3	313	453	738	806	883	220	3
IV	4	521	531	905	262	370	655	4
V	5	122	658	815	888	657	187	5
I	6	202	182	884	794	263	493	6

II	7	795	105	455	520	619	537	7
III	8	444	517	271	584	650	317	8
IV	9	304	899	494	909	371	514	9
V	10	318	311	560	580	116	519	10
I	11	954	166	260	865	985	839	1
II	12	394	176	612	477	411	772	2
III	13	803	396	624	799	727	206	3
IV	14	824	126	442	178	393	724	4
V	15	589	151	762	106	342	415	5
I	16	685	449	988	750	501	926	6
II	17	912	491	184	146	832	454	7
III	18	447	457	451	428	973	652	8
IV	19	978	141	294	968	586	264	9
V	20	977	748	528	130	367	601	10
I	21	788	395	368	927	691	725	1
II	22	872	533	825	117	640	930	2
III	23	365	104	278	467	562	698	3
IV	24	713	749	632	755	665	118	4
V	25	435	863	831	242	680	810	5
I	26	189	840	258	881	782	870	6
II	27	994	768	133	871	205	139	7
III	28	816	911	229	499	837	312	8
IV	29	777	711	100	611	110	548	9
V	30	145	155	347	682	142	950	10
I	31	868	269	622	414	282	787	1
II	32	857	618	308	595	522	406	2
III	33	313	453	738	806	883	220	3
IV	34	521	531	905	262	370	655	4
V	35	122	658	815	888	657	187	5
I	36	202	182	884	794	263	493	6

II	37	795	105	455	520	619	537	7
III	38	444	517	271	584	650	317	8
IV	39	304	899	494	909	371	514	9
V	40	318	311	560	580	116	519	10



LEMBAR PENILAIAN UJI SENSORI

Produk : *Collagen Paper*
 Nama Panelis :
 Usia :
 Pernah mengonsumsi : Ya / Tidak (*Coret yang tidak perlu*)
 Waktu Konsumsi Terakhir : 1 minggu terakhir / 1 bulan terakhir / 3 bulan terakhir / 6 bulan terakhir / 1 tahun terakhir (*Coret yang tidak perlu*)

Instruksi :

- Berikut Terdapat 6 macam sampel *Collagen Paper*. Cicipilah masing masing sampel.
- Netralkan indera pengecap anda dengan berkumur air putih setelah mencicipi satu sampel dan sebelum mencicipi sampel selanjutnya.
- Lalu beri penilaian kepada 6 sampel secara langsung untuk tiap sampel dengan mengamati dan mencicipi secara berurutan dari kiri ke kanan.
- Nyatakan penilaian anda sesuai dengan kriteria (isi angka antara 1-7) pada kolom kode sampel.
- Apabila memiliki komentar dan saran dapat menuliskan pada bagian komentar.

Parameter	Kode Sampel					
Warna						
Rasa						
<i>Aftertaste</i>						
Aroma						
Tekstur						
Elastisitas						
Keseluruhan						

Keterangan

Warna :	Rasa :	<i>Aftertaste</i> :	Aroma :
1 - Kecoklatan Keruh	1 - Sangat Asin	1 - Sangat Tidak Enak	1 - Sangat Tidak Enak
2 - Kecoklatan Agak Bening	2 - Asin	2 - Tidak Enak	2 - Tidak Enak
3 - Kecoklatan Bening	3 - Agak Asin	3 - Agak Tidak Enak	3 - Agak Tidak Enak
4 - Transparan	4 - Netral	4 - Netral	4 - Netral
5 - Putih Bening	5 - Agak Hambar	5 - Agak Enak	5 - Agak Enak
6 - Putih Agak Bening	6 - Hambar	6 - Enak	6 - Enak
7 - Putih Keruh	7 - Sangat Hambar	7 - Sangat Enak	7 - Sangat Enak

Tekstur :	Elastisitas :	Keseluruhan :
1 - Lengket, tidak kompak	1 - Sangat Tidak Elastis	1 - Sangat Tidak Menarik
2 - Lengket, sedikit kompak	2 - Tidak Elastis	2 - Tidak Menarik
3 - Agak Lengket, tidak kompak	3 - Agak Tidak Elastis	3 - Agak Tidak Menarik
4 - Agak lengket, sedikit kompak	4 - Netral	4 - Netral
5 - Tidak lengket, tidak kompak	5 - Agak Elastis	5 - Agak Menarik
6 - tidak lengket, sedikit kompak	6 - Elastis	6 - Menarik
7 - tidak lengket, Sangat Kompak	7 - Sangat Elastis	7 - Sangat Menarik

Komentar :

Lampiran 13. Google form dan Spreadsheet Hasil Presensi Kegiatan FGD

Google form Presensi Kegiatan FGD

Form Presensi FGD

19i20001@student.unika.ac.id (not shared) [Switch account](#)

* Required

Nama

Your answer

Kategori *

Penjual

Pengguna

Konsumen

Dengan ini saya hadir dalam kegiatan FGD *

Ya

Submit [Clear form](#)

Spreadsheet Hasil Presensi Kegiatan FGD

	A	B	C	D	E
1	Timestamp	Nama	Kategori	Dengan ini saya hadir dalam kegiatan FGD	
2	09/12/2022 12:10:15	Vania Christina	Konsumen	Ya	
3	09/12/2022 12:10:22	Leon	Penjual	Ya	
4	09/12/2022 12:11:21	Vanessa Gabriella	Pengguna	Ya	
5	09/12/2022 12:11:49	Lidya Ayu	Konsumen	Ya	
6	09/12/2022 12:11:59	Tonny Setiawan	Konsumen	Ya	
7	09/12/2022 12:12:07	Susi Home Cooking	Penjual	Ya	

Lampiran 14. Rundown Acara FGD

RUNDOWN (9 Des 2022)

Waktu	Kegiatan	Ruangan	Keterangan Alat
10.00 – 10.10	Waktu tunggu	Multifungsi	Proyektor
10.10 – 11.00	Uji Coba Aplikasi	Lab NTK	<i>Collagen paper</i> , isian, apron
11.00-selesai	FGD, sensori	Multifungsi	Proyektor, meja, kursi. (untuk FGD) Nampan, bolpoin, form panelis, sampel (untuk sensori)



Lampiran 15. Dokumentasi Kegiatan



Proses Pembuatan Gelatin Ceker Ayam



Pencampuran Adonan



Pemasakan *collagen paper* dengan metode *steam*



Pemasakan *collagen paper* dengan metode *steam*



Pengeringan *collagen paper* dengan Oven



Pengukuran Kadar Air *collagen paper* dengan Metode *Thermogravimetri*



Proses Pengukuran Waktu Rehidrasi atau Pembasahan *collagen paper* dengan Air Hangat



Pengukuran Kuat Tarik dengan Texture Analyser



Pengukuran Kuat Tarik dengan Texture Analyser



Pengukuran Ketebalan dengan Jangka Sorong



Pengukuran Warna dengan Chromameter



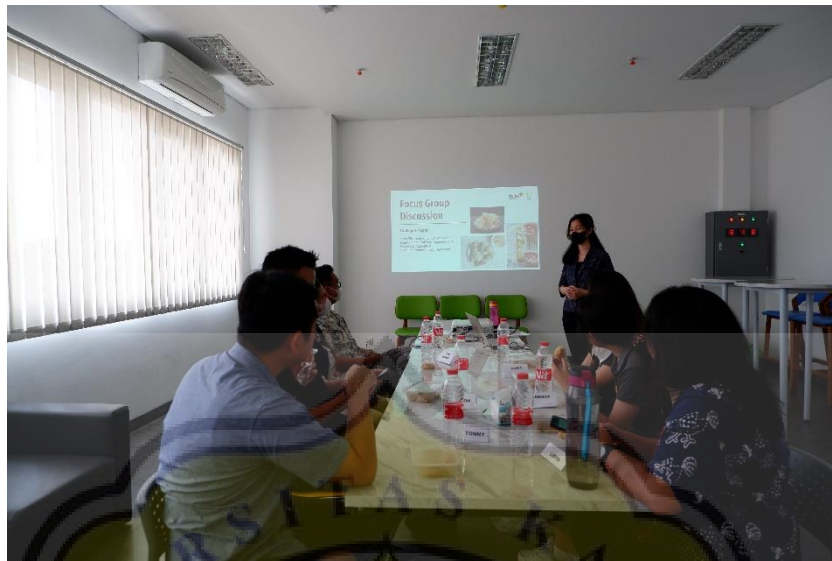
Uji Sensori



Proses Uji Coba *collagen paper*



Proses Uji Coba *collagen paper*



Kegiatan Focus Group Discussion



Kegiatan Focus Group Discussion

PAPER NAME

Berkas Tugas Akhir Angelica.docx

WORD COUNT

9453 Words

CHARACTER COUNT

55478 Characters

PAGE COUNT

40 Pages

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