Perpustakaan Unika

7. LAMPIRAN

Lampiran 1. SNI Kerupuk Beras (SNI 01-4307-1996)

No.	Kriteria Uji	Satuan	Persyaratan	
			Mentah	Sudah Digoreng
1.	Keadaan			
1.1.	Bau	-	Normal	Normal
1.2.	Rasa	-	Normal	Normal
1.3.	Warna	-	Normal	Normal
1.4.	Kenampakan	-	Renyah	Renyah
1.5.	Keutuhan	% b/b	Min. 95	Min. 95
2.	Benda-benda Asing	-	Tidak boleh ada	Tidak boleh ada
3.	Air	% b/b	Maks. 12	Maks. 8
4.	Abu tanpa Garam	% b/b	Maks. 1	Maks. 1
5.	Bahan Tambahan Makanan			
5.1.	Pewarna	-	Sesuai SNI 01-0222-1995	
5.2.	Boraks	-	Tidak ternyata	Tidak ternyata
6.	Cemaran Logam			
6.1.	Timbal (Pb)	mg/kg	Maks. 2,0	Maks 2,0
6.2.	Tembaga (Cu)	mg/kg	Maks. 30,0	Maks. 30,0
6.3.	Timah (Sn)	mg/kg	Maks. 40,0	Maks. 40,0
6.4.	Seng (Zn)	mg/kg	Maks. 40,0	Maks. 40,0
6.5.	Raksa (Hg)	mg/kg	Maks. 0,03	Maks. 0,03
7.	Arsen (As)	mg/kg	Maks. 1,0	Maks. 1,0
8.	Cemaran Mikroba			
8.1.	Angka Lempeng Total	Koloni/g	Maks. 10^6	Maks. 10^5
8.2.	E.coli	APM/g	<3	<3
8.3.	Kapang	Koloni/g	Maks. 10^5	Maks. 10^4

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Lampiran 2. Worksheet Uji Ranking Hedonik

Tanggal :

WORKSHEET

Jenis Sampel : Kerupuk Gendar
Jenis Tes : Uji Ranking Hedonik

Identifikasi Sampel	Sampel	Kode Sampel
Gendar dengan SAPP 0,1 %	K	Random dari 100 – 199
Gendar dengan SAPP 0,2 %	L	Random dari 200 – 299
Gendar dengan SAPP 0,3 %	M	Random dari 300 – 399
Gendar dengan Baking Soda 0,1 %	N	Random dari 400 – 499
Gendar dengan Baking Soda 0,25 %	O	Random dari 500 – 599
Gendar dengan Merang 0,25 %	P	Random dari 600 – 699
Kontrol	Q	Random dari 700 – 799

KODE KOMBINASI URUTAN PENYAJIAN

POLKMNQ	MLQPKON	NMQOPLK
KQMNPOL	LKQMONP	QLPNKMO
PLMQONK	NMQOPLK	KMOPNLQ
MQKLPNO	MKLPQON	NOLQKMP
PQKNOML	OPLQMKN	KMLNOPQ

Penyajian :

Booth	Panelis	Kode Sampel urutan penyajian						
I	# 1, 16	660	535	260	120	313	481	737
II	# 2, 17	127	763	327	483	683	527	283
III	# 3, 18	632	232	388	705	583	432	188
IV	# 4, 19	333	735	102	299	670	404	533
I	# 5, 20	695	769	148	495	548	348	295
II	# 6, 21	344	290	766	690	144	544	490
III	# 7, 22	244	190	716	392	592	446	646
IV	# 8, 23	448	376	705	541	609	214	123
I	# 9, 24	347	147	274	667	706	547	476
II	#10, 25	553	633	273	743	335	158	427
III	#11, 26	489	334	707	534	689	289	134
IV	#12, 27	744	227	627	427	183	383	588
I	#13, 28	199	372	514	622	433	291	777
II	#14, 29	434	589	234	747	189	389	634
III	#15, 30	146	346	292	492	546	692	763

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Lampiran 3. Worksheet Uji Beda

Tanggal :

WORKSHEET

Jenis Sampel : Kerupuk Gendar
Jenis Tes : *Difference from Control Test*

Sampel	Deskripsi	Kode Sampel
C	Kontrol	C
K	Gendar dengan SAPP 0,1 %	Random dari 100 – 199
L	Gendar dengan SAPP 0,2 %	Random dari 200 – 299
M	Gendar dengan SAPP 0,3 %	Random dari 300 – 399
N	Gendar dengan Baking Soda 0,1 %	Random dari 400 – 499
O	Gendar dengan Baking Soda 0,25 %	Random dari 500 – 599
P	Gendar dengan Merang 0,25 %	Random dari 600 – 699
Q	*Blind Control*	Random dari 700 – 799

Pengujian :

Subyek	Hari 1	Hari 2	Hari 3	Hari 4	Hari 5	Hari 6	Hari 7
1 - 6	C – K	C – L	C – M	C – N	C – O	C – P	C – Q
7 - 12	C – L	C – M	C – N	C – O	C – P	C – Q	C - K
13 - 18	C – M	C – N	C – O	C – P	C – Q	C – K	C - L
19 - 24	C – N	C – O	C – P	C – Q	C – K	C – L	C - M
25 - 30	C - O	C – P	C - Q	C - K	C - L	C - M	C - N

Jam	Subyek
09.00	1, 9, 17, 25
09.30	2, 10, 18, 26
10.00	3, 11, 19, 27
10.30	4, 12, 20, 28
11.00	5, 13, 21, 29
11.30	6, 14, 22, 30
12.00	7, 15, 23
12.30	8, 16, 24

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Lampiran 4. Kuesioner Uji Ranking Hedonik

UJI RANKING HEDONIK

Nama :
Produk : Kerupuk Gendar
Atribut : Warna

Tanggal :

Instruksi :
Di hadapan Anda terdapat 7 sampel kerupuk. Amati sampel secara berurutan dari kiri ke kanan. Urutkan sampel dari yang warnanya paling Anda sukai (=7) hingga sampel yang warnanya paling kurang Anda sukai (=1).

Kode Sampel	**Ranking (jangan ada yang dobel)**
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Nama :
Produk : Kerupuk Gendar
Atribut : Kenampakan

Tanggal :

Instruksi :
Di hadapan Anda terdapat 7 sampel kerupuk. Amati sampel secara berurutan dari kiri ke kanan. Urutkan sampel dari yang kenampakannya paling Anda sukai (=7) hingga sampel yang warnanya paling kurang Anda sukai (=1).

Kode Sampel	**Ranking (jangan ada yang dobel)**
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Perpustakaan Unika

Nama : Tanggal :
Produk : Kerupuk Gendar
Atribut : Kerenyahan

Instruksi :
Berkumur-kumurlah dulu sebelum menguji sampel.
Di hadapan Anda terdapat 7 sampel kerupuk. Gigitlah sampel secara berurutan dari kiri ke kanan, rasakan masing-masing. Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang menurut Anda paling renyah (=7) hingga sampel yang menurut Anda paling tidak renyah (=1).

Kode Sampel	**Ranking (jangan ada yang dobel)**
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Nama : Tanggal :
Produk : Kerupuk Gendar
Atribut : Rasa

Instruksi :
Berkumur-kumurlah dulu sebelum menguji sampel.
Di hadapan Anda terdapat 7 sampel kerupuk. Cicipi sampel secara berurutan dari kiri ke kanan, rasakan masing-masing. Setelah mencicipi, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=7) hingga sampel yang kurang Anda sukai (=1).

Kode Sampel	**Ranking (jangan ada yang dobel)**
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Perpustakaan Unika

Nama : Tanggal :
Produk : Kerupuk Gendar
Atribut : *Overall*

Instruksi :
Berkumur-kumurlah dulu sebelum menguji sampel.
Di hadapan Anda terdapat 7 sampel kerupuk. Cicipi sampel secara berurutan dari kiri ke kanan, rasakan masing-masing. Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=7) hingga sampel yang paling Anda kurang sukai (=1).

Kode Sampel	**Ranking (jangan ada yang dobel)**
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Terima Kasih

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Lampiran 5. Kuesioner Uji Beda

UJI BEDA

Nama : Tanggal :

Jenis Sampel : Kerupuk Gendar Kode Sampel :

Instruksi :

1. Anda memperoleh dua sampel kerupuk gendar, sebuah kontrol yang berlabel C dan sebuah sampel berlabel 3 digit angka.
2. Gigit dan rasakan sampel kontrol.
3. Minumlah air mineral yang telah disediakan.
4. Gigit dan rasakan sampel berlabel 3 digit angka.
5. Indikasikan perbedaan *overall*-nya terhadap kontrol dengan skala di bawah ini.

	Skala	**Tandai (✓) untuk mengindikasikan perbedaannya**
Tidak berbeda sama sekali	0	_____
Hampir tidak berbeda	1	_____
Sedikit berbeda	2	_____
Berbeda	3	_____
Sangat berbeda	4	_____
Sangat berbeda sekali	5	_____

Komentar :

_____

_____

_____

ꕥ Terima Kasih ꕥ

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Lampiran 6. Normalitas Analisa Tekstur pada Adonan Gendar

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
Hardness	Baking Soda 0.1%	.286	10	.020	.869	10	.097
	Baking Soda 0.25%	.195	10	.200*	.903	10	.239
	Merang 0.25%	.183	10	.200*	.950	10	.672
	SAPP 0.1%	.250	10	.076	.923	10	.381
	SAPP 0.2%	.154	10	.200*	.930	10	.450
	SAPP 0.3%	.150	10	.200*	.971	10	.898
	Kontrol	.148	10	.200*	.937	10	.524
Cohesiveness	Baking Soda 0.1%	.130	10	.200*	.987	10	.992
	Baking Soda 0.25%	.144	10	.200*	.956	10	.738
	Merang 0.25%	.173	10	.200*	.914	10	.310
	SAPP 0.1%	.168	10	.200*	.940	10	.555
	SAPP 0.2%	.134	10	.200*	.956	10	.741
	SAPP 0.3%	.148	10	.200*	.961	10	.793
	Kontrol	.188	10	.200*	.885	10	.148
Springiness	Baking Soda 0.1%	.190	10	.200*	.932	10	.464
	Baking Soda 0.25%	.168	10	.200*	.957	10	.753
	Merang 0.25%	.235	10	.127	.846	10	.053
	SAPP 0.1%	.206	10	.200*	.937	10	.518
	SAPP 0.2%	.155	10	.200*	.965	10	.841
	SAPP 0.3%	.267	10	.042	.862	10	.080
	Kontrol	.174	10	.200*	.944	10	.601

a. Lilliefors Significance Correction

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

Lampiran 7. Normalitas Break Strength Kerupuk Gendar

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
Break_Strength_mentah	Baking Soda 0.1%	.148	10	.200*	.957	10	.755
	Baking Soda 0.25%	.174	10	.200*	.892	10	.179
	Merang 0.25%	.187	10	.200*	.893	10	.183
	SAPP 0.1%	.132	10	.200*	.959	10	.772
	SAPP 0.2%	.229	10	.145	.922	10	.374
	SAPP 0.3%	.224	10	.166	.879	10	.128
	Kontrol	.196	10	.200*	.910	10	.281
Break_Strength_grg	Baking Soda 0.1%	.134	10	.200*	.935	10	.496
	Baking Soda 0.25%	.151	10	.200*	.915	10	.317
	Merang 0.25%	.117	10	.200*	.972	10	.911
	SAPP 0.1%	.165	10	.200*	.918	10	.337
	SAPP 0.2%	.140	10	.200*	.965	10	.838
	SAPP 0.3%	.164	10	.200*	.956	10	.737
	Kontrol	.222	10	.175	.897	10	.205

a. Lilliefors Significance Correction

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

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Lampiran 8. Normalitas Analisa Kimia Kerupuk Gendar Mentah dan Goreng

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
Kdr_Air	Baking Soda 0.1% _Mentah	.189	10	.200*	.940	10	.550
	Baking Soda 0.25% _Mentah	.206	10	.200*	.930	10	.450
	Merang_Mentah	.226	10	.159	.952	10	.687
	SAPP 0.1%_Mentah	.200	10	.200*	.961	10	.795
	SAPP 0.2%_Mentah	.299	10	.012	.878	10	.122
	SAPP 0.3%_Mentah	.126	10	.200*	.984	10	.983
	Kontrol_Mentah	.139	10	.200*	.922	10	.376
Kdr_Abu_Tanpa_Garam	Baking Soda 0.1% _Mentah	.157	10	.200*	.938	10	.535
	Baking Soda 0.25% _Mentah	.261	10	.052	.896	10	.199
	Merang_Mentah	.133	10	.200*	.952	10	.691
	SAPP 0.1%_Mentah	.268	10	.041	.861	10	.078
	SAPP 0.2%_Mentah	.183	10	.200*	.903	10	.238
	SAPP 0.3%_Mentah	.205	10	.200*	.936	10	.510
	Kontrol_Mentah	.206	10	.200*	.943	10	.585
Kdr_Lemak	Baking Soda 0.1% _Mentah	.186	10	.200*	.917	10	.331
	Baking Soda 0.25% _Mentah	.175	10	.200*	.933	10	.475
	Merang_Mentah	.217	10	.200*	.896	10	.198
	SAPP 0.1%_Mentah	.164	10	.200*	.966	10	.849
	SAPP 0.2%_Mentah	.279	10	.026	.886	10	.153
	SAPP 0.3%_Mentah	.255	10	.065	.912	10	.295
	Kontrol_Mentah	.195	10	.200*	.923	10	.384

a. Lilliefors Significance Correction

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

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
Kadar_Air	Baking Soda 0.1%	.216	10	.200*	.907	10	.263
	Baking Soda 0.25%	.212	10	.200*	.940	10	.551
	Merang	.245	10	.090	.892	10	.177
	SAPP 0.1%	.217	10	.200*	.911	10	.288
	SAPP 0.2%	.169	10	.200*	.964	10	.834
	SAPP 0.3%	.246	10	.089	.827	10	.031
	Kontrol	.144	10	.200*	.948	10	.651
Kadar_Abu_Tnp_Grm	Baking Soda 0.1%	.195	10	.200*	.902	10	.228
	Baking Soda 0.25%	.182	10	.200*	.893	10	.184
	Merang	.170	10	.200*	.907	10	.260
	SAPP 0.1%	.129	10	.200*	.948	10	.647
	SAPP 0.2%	.166	10	.200*	.952	10	.690
	SAPP 0.3%	.139	10	.200*	.974	10	.925
	Kontrol	.153	10	.200*	.976	10	.938
Kadar_Lemak	Baking Soda 0.1%	.151	10	.200*	.951	10	.685
	Baking Soda 0.25%	.152	10	.200*	.956	10	.744
	Merang	.167	10	.200*	.912	10	.293
	SAPP 0.1%	.218	10	.194	.887	10	.155
	SAPP 0.2%	.134	10	.200*	.973	10	.914
	SAPP 0.3%	.225	10	.162	.931	10	.457
	Kontrol	.132	10	.200*	.977	10	.947

a. Lilliefors Significance Correction

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

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Lampiran 9. Deskriptif Statistik Analisa Tekstur pada Adonan Gendar

Descriptives

	Perlakuan			Statistic	Std. Error
Hardness	Baking Soda 0.1%	Mean		434.0160	14.83077
		95% Confidence Interval for Mean	Lower Bound	400.4665	
			Upper Bound	467.5655	
		5% Trimmed Mean		436.5000	
		Median		457.8200	
		Variance		2199.518	
		Std. Deviation		46.89902	
		Minimum		343.00	
		Maximum		480.32	
		Range		137.32	
		Interquartile Range		73.53	
		Skewness		-.958	.687
		Kurtosis		-.235	1.334
	Baking Soda 0.25%	Mean		366.7650	13.80998
		95% Confidence Interval for Mean	Lower Bound	335.5246	
			Upper Bound	398.0054	
		5% Trimmed Mean		368.4744	
		Median		379.2050	
		Variance		1907.157	
		Std. Deviation		43.67101	
		Minimum		290.56	
		Maximum		412.20	
		Range		121.64	
		Interquartile Range		81.72	
		Skewness		-.555	.687
		Kurtosis		-1.081	1.334
	Merang 0.25%	Mean		522.5960	13.48944
		95% Confidence Interval for Mean	Lower Bound	492.0808	
			Upper Bound	553.1112	
		5% Trimmed Mean		524.0956	
		Median		531.8150	
		Variance		1819.650	
		Std. Deviation		42.65736	
		Minimum		442.71	
		Maximum		575.49	
		Range		132.78	
		Interquartile Range		69.48	
		Skewness		-.552	.687
		Kurtosis		-.384	1.334

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SAPP 0.1%	Mean		382.1650	11.25206
	95% Confidence Interval for Mean	Lower Bound	356.7111	
		Upper Bound	407.6189	
	5% Trimmed Mean		382.9939	
	Median		396.4900	
	Variance		1266.088	
	Std. Deviation		35.58213	
	Minimum		319.11	
	Maximum		430.30	
	Range		111.19	
	Interquartile Range		54.75	
	Skewness		-.653	.687
	Kurtosis		-.600	1.334
SAPP 0.2%	Mean		336.0260	8.71789
	95% Confidence Interval for Mean	Lower Bound	316.3048	
		Upper Bound	355.7472	
	5% Trimmed Mean		336.0622	
	Median		336.5750	
	Variance		760.016	
	Std. Deviation		27.56838	
	Minimum		296.80	
	Maximum		374.60	
	Range		77.80	
	Interquartile Range		51.28	
	Skewness		-.038	.687
	Kurtosis		-1.650	1.334
SAPP 0.3%	Mean		308.5340	7.36185
	95% Confidence Interval for Mean	Lower Bound	291.8803	
		Upper Bound	325.1877	
	5% Trimmed Mean		307.8733	
	Median		305.4300	
	Variance		541.969	
	Std. Deviation		23.28022	
	Minimum		276.09	
	Maximum		352.87	
	Range		76.78	
	Interquartile Range		35.70	
	Skewness		.486	.687
	Kurtosis		.025	1.334
Kontrol	Mean		377.2690	19.53530
	95% Confidence Interval for Mean	Lower Bound	333.0771	
		Upper Bound	421.4609	
	5% Trimmed Mean		374.8756	
	Median		371.3200	
	Variance		3816.279	
	Std. Deviation		61.77604	
	Minimum		305.45	
	Maximum		492.17	
	Range		186.72	
	Interquartile Range		104.41	
	Skewness		.690	.687
	Kurtosis		-.355	1.334

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Cohesiveness	Baking Soda 0.1%	Mean		.2794	.01345
		95% Confidence Interval for Mean	Lower Bound	.2489	
			Upper Bound	.3098	
		5% Trimmed Mean		.2792	
		Median		.2743	
		Variance		.002	
		Std. Deviation		.04254	
		Minimum		.21	
		Maximum		.36	
		Range		.15	
		Interquartile Range		.06	
		Skewness		.168	.687
		Kurtosis		.427	1.334
	Baking Soda 0.25%	Mean		.3116	.01012
		95% Confidence Interval for Mean	Lower Bound	.2887	
			Upper Bound	.3345	
		5% Trimmed Mean		.3128	
		Median		.3164	
		Variance		.001	
		Std. Deviation		.03200	
		Minimum		.25	
		Maximum		.36	
		Range		.11	
		Interquartile Range		.04	
		Skewness		-.757	.687
		Kurtosis		.752	1.334
	Merang 0.25%	Mean		.2663	.00756
		95% Confidence Interval for Mean	Lower Bound	.2492	
			Upper Bound	.2834	
		5% Trimmed Mean		.2658	
		Median		.2646	
		Variance		.001	
		Std. Deviation		.02392	
		Minimum		.24	
		Maximum		.30	
		Range		.06	
		Interquartile Range		.05	
		Skewness		.309	.687
		Kurtosis		-1.430	1.334
	SAPP 0.1%	Mean		.2585	.01440
		95% Confidence Interval for Mean	Lower Bound	.2259	
			Upper Bound	.2911	
		5% Trimmed Mean		.2568	
		Median		.2478	
		Variance		.002	
		Std. Deviation		.04554	
		Minimum		.20	
		Maximum		.35	
		Range		.14	
		Interquartile Range		.08	
		Skewness		.645	.687
		Kurtosis		-.409	1.334

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SAPP 0.2%	Mean		.2700	.00426
	95% Confidence Interval for Mean	Lower Bound	.2603	
		Upper Bound	.2796	
	5% Trimmed Mean		.2697	
	Median		.2702	
	Variance		.000	
	Std. Deviation		.01346	
	Minimum		.25	
	Maximum		.29	
	Range		.04	
	Interquartile Range		.02	
	Skewness		.179	.687
	Kurtosis		-.202	1.334
SAPP 0.3%	Mean		.2784	.01277
	95% Confidence Interval for Mean	Lower Bound	.2495	
		Upper Bound	.3073	
	5% Trimmed Mean		.2796	
	Median		.2792	
	Variance		.002	
	Std. Deviation		.04040	
	Minimum		.20	
	Maximum		.34	
	Range		.13	
	Interquartile Range		.06	
	Skewness		-.374	.687
	Kurtosis		.165	1.334
Kontrol	Mean		.2835	.01003
	95% Confidence Interval for Mean	Lower Bound	.2608	
		Upper Bound	.3062	
	5% Trimmed Mean		.2836	
	Median		.2915	
	Variance		.001	
	Std. Deviation		.03172	
	Minimum		.24	
	Maximum		.32	
	Range		.08	
	Interquartile Range		.07	
	Skewness		-.272	.687
	Kurtosis		-1.686	1.334

Perpustakaan Unika

Springiness	Baking Soda 0.1%	Mean		8.6290	.23088
		95% Confidence Interval for Mean	Lower Bound	8.1067	
			Upper Bound	9.1513	
		5% Trimmed Mean		8.6167	
		Median		8.6050	
		Variance		.533	
		Std. Deviation		.73011	
		Minimum		7.68	
		Maximum		9.80	
		Range		2.12	
		Interquartile Range		1.28	
		Skewness		.224	.687
		Kurtosis		-1.419	1.334
	Baking Soda 0.25%	Mean		8.5690	.10140
		95% Confidence Interval for Mean	Lower Bound	8.3396	
			Upper Bound	8.7984	
		5% Trimmed Mean		8.5594	
		Median		8.5450	
		Variance		.103	
		Std. Deviation		.32064	
		Minimum		8.12	
		Maximum		9.19	
		Range		1.07	
		Interquartile Range		.51	
		Skewness		.554	.687
		Kurtosis		-.013	1.334
	Merang 0.25%	Mean		8.6560	.46912
		95% Confidence Interval for Mean	Lower Bound	7.5948	
			Upper Bound	9.7172	
		5% Trimmed Mean		8.5478	
		Median		8.4250	
		Variance		2.201	
		Std. Deviation		1.48348	
		Minimum		6.97	
		Maximum		12.29	
		Range		5.32	
		Interquartile Range		1.39	
		Skewness		1.700	.687
		Kurtosis		4.093	1.334
	SAPP 0.1%	Mean		9.2970	.27806
		95% Confidence Interval for Mean	Lower Bound	8.6680	
			Upper Bound	9.9260	
		5% Trimmed Mean		9.2722	
		Median		9.0350	
		Variance		.773	
		Std. Deviation		.87931	
		Minimum		8.14	
		Maximum		10.90	
		Range		2.76	
		Interquartile Range		1.37	
		Skewness		.599	.687
		Kurtosis		-.627	1.334

Perpustakaan Unika

SAPP 0.2%	Mean		9.0200	.19261
	95% Confidence Interval for Mean	Lower Bound	8.5843	
		Upper Bound	9.4557	
	5% Trimmed Mean		9.0017	
	Median		9.0100	
	Variance		.371	
	Std. Deviation		.60910	
	Minimum		8.17	
	Maximum		10.20	
	Range		2.03	
	Interquartile Range		.84	
	Skewness		.570	.687
	Kurtosis		.049	1.334
SAPP 0.3%	Mean		8.6520	.13055
	95% Confidence Interval for Mean	Lower Bound	8.3567	
		Upper Bound	8.9473	
	5% Trimmed Mean		8.6600	
	Median		8.8400	
	Variance		.170	
	Std. Deviation		.41284	
	Minimum		8.03	
	Maximum		9.13	
	Range		1.10	
	Interquartile Range		.82	
	Skewness		-.594	.687
	Kurtosis		-1.400	1.334
Kontrol	Mean		10.7480	.12102
	95% Confidence Interval for Mean	Lower Bound	10.4742	
		Upper Bound	11.0218	
	5% Trimmed Mean		10.7406	
	Median		10.7850	
	Variance		.146	
	Std. Deviation		.38270	
	Minimum		10.24	
	Maximum		11.39	
	Range		1.15	
	Interquartile Range		.61	
	Skewness		.119	.687
	Kurtosis		-1.048	1.334

Perpustakaan Unika

Lampiran 10. Deskriptif Statistik Break Strength Kerupuk Gendar

Descriptives

	Perlakuan			Statistic	Std. Error
Break_Strength_mentah	Baking Soda 0.1%	Mean		1125.4920	34.63899
		95% Confidence Interval for Mean	Lower Bound	1047.1332	
			Upper Bound	1203.8508	
		5% Trimmed Mean		1125.1072	
		Median		1104.0750	
		Variance		11998.593	
		Std. Deviation		109.53809	
		Minimum		959.85	
		Maximum		1298.06	
		Range		338.21	
		Interquartile Range		184.69	
		Skewness		.261	.687
		Kurtosis		-.978	1.334
	Baking Soda 0.25%	Mean		799.2330	78.23779
		95% Confidence Interval for Mean	Lower Bound	622.2468	
			Upper Bound	976.2192	
		5% Trimmed Mean		783.9422	
		Median		770.3050	
		Variance		61211.518	
		Std. Deviation		247.40962	
		Minimum		501.77	
		Maximum		1371.93	
		Range		870.16	
		Interquartile Range		286.48	
		Skewness		1.384	.687
		Kurtosis		2.601	1.334
	Merang 0.25%	Mean		1927.7120	126.88318
		95% Confidence Interval for Mean	Lower Bound	1640.6823	
			Upper Bound	2214.7417	
		5% Trimmed Mean		1938.1450	
		Median		2057.7500	
		Variance		160993.410	
		Std. Deviation		401.23984	
		Minimum		1273.53	
		Maximum		2394.10	
		Range		1120.57	
		Interquartile Range		611.38	
		Skewness		-.749	.687
		Kurtosis		-.603	1.334

Perpustakaan Unika

SAPP 0.1%	Mean		1215.5000	52.91109
	95% Confidence Interval for Mean	Lower Bound	1095.8068	
		Upper Bound	1335.1932	
	5% Trimmed Mean		1216.3889	
	Median		1216.5000	
	Variance		27995.833	
	Std. Deviation		167.31955	
	Minimum		952.00	
	Maximum		1463.00	
	Range		511.00	
	Interquartile Range		253.00	
	Skewness		-.076	.687
	Kurtosis		-.537	1.334
SAPP 0.2%	Mean		1123.7000	41.86222
	95% Confidence Interval for Mean	Lower Bound	1029.0011	
		Upper Bound	1218.3989	
	5% Trimmed Mean		1122.3889	
	Median		1078.5000	
	Variance		17524.456	
	Std. Deviation		132.37997	
	Minimum		945.00	
	Maximum		1326.00	
	Range		381.00	
	Interquartile Range		237.50	
	Skewness		.340	.687
	Kurtosis		-1.388	1.334
SAPP 0.3%	Mean		1894.8160	144.40109
	95% Confidence Interval for Mean	Lower Bound	1568.1580	
		Upper Bound	2221.4740	
	5% Trimmed Mean		1910.9822	
	Median		2096.0100	
	Variance		208516.746	
	Std. Deviation		456.63634	
	Minimum		1104.54	
	Maximum		2394.10	
	Range		1289.56	
	Interquartile Range		847.47	
	Skewness		-.630	.687
	Kurtosis		-1.238	1.334
Kontrol	Mean		1149.8900	102.54506
	95% Confidence Interval for Mean	Lower Bound	917.9170	
		Upper Bound	1381.8630	
	5% Trimmed Mean		1147.2872	
	Median		1205.8300	
	Variance		105154.892	
	Std. Deviation		324.27595	
	Minimum		707.98	
	Maximum		1638.65	
	Range		930.67	
	Interquartile Range		646.88	
	Skewness		-.272	.687
	Kurtosis		-1.137	1.334

Perpustakaan Unika

Break_Strength_grg	Baking Soda 0.1%	Mean		545.6000	27.66554
		95% Confidence Interval for Mean	Lower Bound	483.0162	
			Upper Bound	608.1838	
		5% Trimmed Mean		546.6667	
		Median		561.0000	
		Variance		7653.822	
		Std. Deviation		87.48613	
		Minimum		414.00	
		Maximum		658.00	
		Range		244.00	
		Interquartile Range		171.25	
		Skewness		-.243	.687
		Kurtosis		-1.478	1.334
	Baking Soda 0.25%	Mean		625.5000	35.22349
		95% Confidence Interval for Mean	Lower Bound	545.8189	
			Upper Bound	705.1811	
		5% Trimmed Mean		628.3889	
		Median		643.0000	
		Variance		12406.944	
		Std. Deviation		111.38646	
		Minimum		446.00	
		Maximum		753.00	
		Range		307.00	
		Interquartile Range		203.75	
		Skewness		-.556	.687
		Kurtosis		-1.028	1.334
	Merang 0.25%	Mean		1206.4000	45.95969
		95% Confidence Interval for Mean	Lower Bound	1102.4320	
			Upper Bound	1310.3680	
		5% Trimmed Mean		1203.3889	
		Median		1212.5000	
		Variance		21122.933	
		Std. Deviation		145.33731	
		Minimum		1002.00	
		Maximum		1465.00	
		Range		463.00	
		Interquartile Range		230.75	
		Skewness		.254	.687
		Kurtosis		-.550	1.334
	SAPP 0.1%	Mean		541.3110	43.57171
		95% Confidence Interval for Mean	Lower Bound	442.7449	
			Upper Bound	639.8771	
		5% Trimmed Mean		543.0056	
		Median		570.0950	
		Variance		18984.941	
		Std. Deviation		137.78585	
		Minimum		342.07	
		Maximum		710.05	
		Range		367.98	
		Interquartile Range		275.16	
		Skewness		-.276	.687
		Kurtosis		-1.334	1.334

Perpustakaan Unika

SAPP 0.2%	Mean		792.3410	32.94694
	95% Confidence Interval for Mean	Lower Bound	717.8098	
		Upper Bound	866.8722	
	5% Trimmed Mean		790.3911	
	Median		802.1900	
	Variance		10855.008	
	Std. Deviation		104.18737	
	Minimum		649.27	
	Maximum		970.51	
	Range		321.24	
	Interquartile Range		167.12	
	Skewness		.246	.687
	Kurtosis		-.720	1.334
SAPP 0.3%	Mean		508.0000	24.82606
	95% Confidence Interval for Mean	Lower Bound	451.8395	
		Upper Bound	564.1605	
	5% Trimmed Mean		505.8889	
	Median		497.0000	
	Variance		6163.333	
	Std. Deviation		78.50690	
	Minimum		401.00	
	Maximum		653.00	
	Range		252.00	
	Interquartile Range		126.50	
	Skewness		.419	.687
	Kurtosis		-.131	1.334
Kontrol	Mean		488.7000	22.34828
	95% Confidence Interval for Mean	Lower Bound	438.1447	
		Upper Bound	539.2553	
	5% Trimmed Mean		485.1111	
	Median		482.0000	
	Variance		4994.456	
	Std. Deviation		70.67146	
	Minimum		409.00	
	Maximum		633.00	
	Range		224.00	
	Interquartile Range		94.00	
	Skewness		.804	.687
	Kurtosis		.288	1.334

Perpustakaan Unika

Lampiran 11. Deskriptif Statistik Analisa Kimia Kerupuk Gendar Mentah dan Goreng

Descriptives

	Perlakuan			Statistic	Std. Error
Kdr_Air	Baking Soda 0.1%_Mentah	Mean		8.2200	.03512
		95% Confidence Interval for Mean	Lower Bound	8.1406	
			Upper Bound	8.2994	
		5% Trimmed Mean		8.2250	
		Median		8.2500	
		Variance		.012	
		Std. Deviation		.11106	
		Minimum		8.00	
		Maximum		8.35	
		Range		.35	
		Interquartile Range		.18	
		Skewness		-.785	.687
		Kurtosis		.236	1.334
	Baking Soda 0.25%_Mentah	Mean		8.3000	.01972
		95% Confidence Interval for Mean	Lower Bound	8.2554	
			Upper Bound	8.3446	
		5% Trimmed Mean		8.3000	
		Median		8.3000	
		Variance		.004	
		Std. Deviation		.06236	
		Minimum		8.20	
		Maximum		8.40	
		Range		.20	
		Interquartile Range		.10	
		Skewness		.000	.687
		Kurtosis		-.912	1.334
	Merang_Mentah	Mean		8.6550	.05550
		95% Confidence Interval for Mean	Lower Bound	8.5294	
			Upper Bound	8.7806	
		5% Trimmed Mean		8.6556	
		Median		8.6750	
		Variance		.031	
		Std. Deviation		.17552	
		Minimum		8.35	
		Maximum		8.95	
		Range		.60	
		Interquartile Range		.21	
		Skewness		-.123	.687
		Kurtosis		.162	1.334

Perpustakaan Unika

SAPP 0.1%_Mentah	Mean		8.4000	.02789
	95% Confidence Interval for Mean	Lower Bound	8.3369	
		Upper Bound	8.4631	
	5% Trimmed Mean		8.4000	
	Median		8.4000	
	Variance		.008	
	Std. Deviation		.08819	
	Minimum		8.25	
	Maximum		8.55	
	Range		.30	
	Interquartile Range		.12	
	Skewness		.000	.687
	Kurtosis		.080	1.334
SAPP 0.2%_Mentah	Mean		8.6550	.02734
	95% Confidence Interval for Mean	Lower Bound	8.5932	
		Upper Bound	8.7168	
	5% Trimmed Mean		8.6583	
	Median		8.7000	
	Variance		.007	
	Std. Deviation		.08644	
	Minimum		8.50	
	Maximum		8.75	
	Range		.25	
	Interquartile Range		.12	
	Skewness		-.674	.687
	Kurtosis		-.835	1.334
SAPP 0.3%_Mentah	Mean		8.8500	.03496
	95% Confidence Interval for Mean	Lower Bound	8.7709	
		Upper Bound	8.9291	
	5% Trimmed Mean		8.8500	
	Median		8.8500	
	Variance		.012	
	Std. Deviation		.11055	
	Minimum		8.65	
	Maximum		9.05	
	Range		.40	
	Interquartile Range		.12	
	Skewness		.000	.687
	Kurtosis		.665	1.334
Kontrol_Mentah	Mean		8.7300	.06155
	95% Confidence Interval for Mean	Lower Bound	8.5908	
		Upper Bound	8.8692	
	5% Trimmed Mean		8.7194	
	Median		8.7250	
	Variance		.038	
	Std. Deviation		.19465	
	Minimum		8.50	
	Maximum		9.15	
	Range		.65	
	Interquartile Range		.25	
	Skewness		.985	.687
	Kurtosis		1.423	1.334

Perpustakaan Unika

Kdr_Abu_Tanpa_Garam	Baking Soda 0.1%_Mentah	Mean		.7800	.02366
		95% Confidence Interval for Mean	Lower Bound	.7265	
			Upper Bound	.8335	
		5% Trimmed Mean		.7794	
		Median		.7750	
		Variance		.006	
		Std. Deviation		.07483	
		Minimum		.68	
		Maximum		.89	
		Range		.21	
		Interquartile Range		.15	
		Skewness		.046	.687
		Kurtosis		-1.257	1.334
	Baking Soda 0.25%_Mentah	Mean		.9120	.01597
		95% Confidence Interval for Mean	Lower Bound	.8759	
			Upper Bound	.9481	
		5% Trimmed Mean		.9111	
		Median		.9200	
		Variance		.003	
		Std. Deviation		.05051	
		Minimum		.82	
		Maximum		1.02	
		Range		.20	
		Interquartile Range		.04	
		Skewness		.474	.687
		Kurtosis		2.684	1.334
	Merang_Mentah	Mean		.7100	.03786
		95% Confidence Interval for Mean	Lower Bound	.6244	
			Upper Bound	.7956	
		5% Trimmed Mean		.7056	
		Median		.7000	
		Variance		.014	
		Std. Deviation		.11972	
		Minimum		.55	
		Maximum		.95	
		Range		.40	
		Interquartile Range		.20	
		Skewness		.677	.687
		Kurtosis		.349	1.334
	SAPP 0.1%_Mentah	Mean		.7180	.02332
		95% Confidence Interval for Mean	Lower Bound	.6652	
			Upper Bound	.7708	
		5% Trimmed Mean		.7206	
		Median		.7500	
		Variance		.005	
		Std. Deviation		.07376	
		Minimum		.59	
		Maximum		.80	
		Range		.21	
		Interquartile Range		.09	
		Skewness		-.877	.687
		Kurtosis		-.227	1.334

Perpustakaan Unika

SAPP 0.2%_Mentah	Mean		.7540	.02941
	95% Confidence Interval for Mean	Lower Bound	.6875	
		Upper Bound	.8205	
	5% Trimmed Mean		.7567	
	Median		.7650	
	Variance		.009	
	Std. Deviation		.09300	
	Minimum		.60	
	Maximum		.86	
	Range		.26	
	Interquartile Range		.20	
	Skewness		-.488	.687
	Kurtosis		-1.137	1.334
SAPP 0.3%_Mentah	Mean		.8610	.02387
	95% Confidence Interval for Mean	Lower Bound	.8070	
		Upper Bound	.9150	
	5% Trimmed Mean		.8606	
	Median		.8500	
	Variance		.006	
	Std. Deviation		.07549	
	Minimum		.75	
	Maximum		.98	
	Range		.23	
	Interquartile Range		.15	
	Skewness		.243	.687
	Kurtosis		-.905	1.334
Kontrol_Mentah	Mean		.8780	.02913
	95% Confidence Interval for Mean	Lower Bound	.8121	
		Upper Bound	.9439	
	5% Trimmed Mean		.8756	
	Median		.8700	
	Variance		.008	
	Std. Deviation		.09211	
	Minimum		.75	
	Maximum		1.05	
	Range		.30	
	Interquartile Range		.12	
	Skewness		.676	.687
	Kurtosis		.034	1.334

Perpustakaan Unika

Kdr_Lemak	Baking Soda 0.1%_Mentah	Mean		.8600	.05812
		95% Confidence Interval for Mean	Lower Bound	.7285	
			Upper Bound	.9915	
		5% Trimmed Mean		.8611	
		Median		.9000	
		Variance		.034	
		Std. Deviation		.18379	
		Minimum		.60	
		Maximum		1.10	
		Range		.50	
		Interquartile Range		.35	
		Skewness		-.199	.687
		Kurtosis		-1.119	1.334
	Baking Soda 0.25%_Mentah	Mean		.9600	.06700
		95% Confidence Interval for Mean	Lower Bound	.8084	
			Upper Bound	1.1116	
		5% Trimmed Mean		.9556	
		Median		.9500	
		Variance		.045	
		Std. Deviation		.21187	
		Minimum		.70	
		Maximum		1.30	
		Range		.60	
		Interquartile Range		.35	
		Skewness		.221	.687
		Kurtosis		-1.316	1.334
	Merang_Mentah	Mean		.2400	.04269
		95% Confidence Interval for Mean	Lower Bound	.1434	
			Upper Bound	.3366	
		5% Trimmed Mean		.2333	
		Median		.2000	
		Variance		.018	
		Std. Deviation		.13499	
		Minimum		.10	
		Maximum		.50	
		Range		.40	
		Interquartile Range		.22	
		Skewness		.772	.687
		Kurtosis		-.125	1.334
	SAPP 0.1%_Mentah	Mean		.9000	.07454
		95% Confidence Interval for Mean	Lower Bound	.7314	
			Upper Bound	1.0686	
		5% Trimmed Mean		.9000	
		Median		.8500	
		Variance		.056	
		Std. Deviation		.23570	
		Minimum		.50	
		Maximum		1.30	
		Range		.80	
		Interquartile Range		.28	
		Skewness		.191	.687
		Kurtosis		.003	1.334

Perpustakaan Unika

SAPP 0.2%_Mentah	Mean		1.0700	.08825
	95% Confidence Interval for Mean	Lower Bound	.8704	
		Upper Bound	1.2696	
	5% Trimmed Mean		1.0778	
	Median		1.2000	
	Variance		.078	
	Std. Deviation		.27909	
	Minimum		.60	
	Maximum		1.40	
	Range		.80	
	Interquartile Range		.52	
	Skewness		-.688	.687
	Kurtosis		-1.059	1.334
SAPP 0.3%_Mentah	Mean		.9900	.05044
	95% Confidence Interval for Mean	Lower Bound	.8759	
		Upper Bound	1.1041	
	5% Trimmed Mean		.9944	
	Median		1.0500	
	Variance		.025	
	Std. Deviation		.15951	
	Minimum		.70	
	Maximum		1.20	
	Range		.50	
	Interquartile Range		.23	
	Skewness		-.620	.687
	Kurtosis		-.618	1.334
Kontrol_Mentah	Mean		.8600	.07916
	95% Confidence Interval for Mean	Lower Bound	.6809	
		Upper Bound	1.0391	
	5% Trimmed Mean		.8611	
	Median		.8000	
	Variance		.063	
	Std. Deviation		.25033	
	Minimum		.50	
	Maximum		1.20	
	Range		.70	
	Interquartile Range		.45	
	Skewness		.198	.687
	Kurtosis		-1.386	1.334

Perpustakaan Unika

Descriptives

	Perlakuan			Statistic	Std. Error
Kadar_Air	Baking Soda 0.1%	Mean		.6900	.02211
		95% Confidence Interval for Mean	Lower Bound	.6400	
			Upper Bound	.7400	
		5% Trimmed Mean		.6889	
		Median		.6750	
		Variance		.005	
		Std. Deviation		.06992	
		Minimum		.60	
		Maximum		.80	
		Range		.20	
		Interquartile Range		.11	
		Skewness		.134	.687
		Kurtosis		-1.379	1.334
	Baking Soda 0.25%	Mean		1.5550	.03114
		95% Confidence Interval for Mean	Lower Bound	1.4846	
			Upper Bound	1.6254	
		5% Trimmed Mean		1.5556	
		Median		1.5500	
		Variance		.010	
		Std. Deviation		.09846	
		Minimum		1.40	
		Maximum		1.70	
		Range		.30	
		Interquartile Range		.16	
		Skewness		-.063	.687
		Kurtosis		-1.229	1.334
	Merang	Mean		.6700	.01700
		95% Confidence Interval for Mean	Lower Bound	.6316	
			Upper Bound	.7084	
		5% Trimmed Mean		.6694	
		Median		.6500	
		Variance		.003	
		Std. Deviation		.05375	
		Minimum		.60	
		Maximum		.75	
		Range		.15	
		Interquartile Range		.07	
		Skewness		.322	.687
		Kurtosis		-.882	1.334

Perpustakaan Unika

SAPP 0.1%	Mean		.8850	.03731
	95% Confidence Interval for Mean	Lower Bound	.8006	
		Upper Bound	.9694	
	5% Trimmed Mean		.8806	
	Median		.8500	
	Variance		.014	
	Std. Deviation		.11797	
	Minimum		.75	
	Maximum		1.10	
	Range		.35	
	Interquartile Range		.19	
	Skewness		.765	.687
	Kurtosis		-.263	1.334
SAPP 0.2%	Mean		1.0400	.04333
	95% Confidence Interval for Mean	Lower Bound	.9420	
		Upper Bound	1.1380	
	5% Trimmed Mean		1.0417	
	Median		1.0750	
	Variance		.019	
	Std. Deviation		.13703	
	Minimum		.80	
	Maximum		1.25	
	Range		.45	
	Interquartile Range		.21	
	Skewness		-.306	.687
	Kurtosis		-.566	1.334
SAPP 0.3%	Mean		.9700	.03350
	95% Confidence Interval for Mean	Lower Bound	.8942	
		Upper Bound	1.0458	
	5% Trimmed Mean		.9694	
	Median		.9250	
	Variance		.011	
	Std. Deviation		.10593	
	Minimum		.85	
	Maximum		1.10	
	Range		.25	
	Interquartile Range		.21	
	Skewness		.305	.687
	Kurtosis		-1.940	1.334
Kontrol	Mean		1.1150	.03877
	95% Confidence Interval for Mean	Lower Bound	1.0273	
		Upper Bound	1.2027	
	5% Trimmed Mean		1.1111	
	Median		1.1250	
	Variance		.015	
	Std. Deviation		.12259	
	Minimum		.95	
	Maximum		1.35	
	Range		.40	
	Interquartile Range		.18	
	Skewness		.358	.687
	Kurtosis		.179	1.334

Perpustakaan Unika

Kadar_Abu_Tnp_Grm	Baking Soda 0.1%	Mean		.7060	.01614
		95% Confidence Interval for Mean	Lower Bound	.6695	
			Upper Bound	.7425	
		5% Trimmed Mean		.7033	
		Median		.7000	
		Variance		.003	
		Std. Deviation		.05103	
		Minimum		.65	
		Maximum		.81	
		Range		.16	
		Interquartile Range		.07	
		Skewness		.792	.687
		Kurtosis		.278	1.334
	Baking Soda 0.25%	Mean		.8730	.00870
		95% Confidence Interval for Mean	Lower Bound	.8533	
			Upper Bound	.8927	
		5% Trimmed Mean		.8728	
		Median		.8650	
		Variance		.001	
		Std. Deviation		.02751	
		Minimum		.84	
		Maximum		.91	
		Range		.07	
		Interquartile Range		.06	
		Skewness		.250	.687
		Kurtosis		-1.643	1.334
	Merang	Mean		.6780	.00786
		95% Confidence Interval for Mean	Lower Bound	.6602	
			Upper Bound	.6958	
		5% Trimmed Mean		.6772	
		Median		.6800	
		Variance		.001	
		Std. Deviation		.02486	
		Minimum		.65	
		Maximum		.72	
		Range		.07	
		Interquartile Range		.05	
		Skewness		.230	.687
		Kurtosis		-1.165	1.334

Perpustakaan Unika

SAPP 0.1%	Mean		.6170	.01317
	95% Confidence Interval for Mean	Lower Bound	.5872	
		Upper Bound	.6468	
	5% Trimmed Mean		.6167	
	Median		.6200	
	Variance		.002	
	Std. Deviation		.04165	
	Minimum		.56	
	Maximum		.68	
	Range		.12	
	Interquartile Range		.08	
	Skewness		-.093	.687
	Kurtosis		-1.168	1.334
SAPP 0.2%	Mean		.6550	.01827
	95% Confidence Interval for Mean	Lower Bound	.6137	
		Upper Bound	.6963	
	5% Trimmed Mean		.6550	
	Median		.6600	
	Variance		.003	
	Std. Deviation		.05778	
	Minimum		.56	
	Maximum		.75	
	Range		.19	
	Interquartile Range		.08	
	Skewness		-.343	.687
	Kurtosis		-.002	1.334
SAPP 0.3%	Mean		.6700	.01776
	95% Confidence Interval for Mean	Lower Bound	.6298	
		Upper Bound	.7102	
	5% Trimmed Mean		.6683	
	Median		.6650	
	Variance		.003	
	Std. Deviation		.05617	
	Minimum		.59	
	Maximum		.78	
	Range		.19	
	Interquartile Range		.08	
	Skewness		.536	.687
	Kurtosis		.273	1.334
Kontrol	Mean		.9300	.01673
	95% Confidence Interval for Mean	Lower Bound	.8921	
		Upper Bound	.9679	
	5% Trimmed Mean		.9289	
	Median		.9300	
	Variance		.003	
	Std. Deviation		.05292	
	Minimum		.85	
	Maximum		1.03	
	Range		.18	
	Interquartile Range		.07	
	Skewness		.326	.687
	Kurtosis		.201	1.334

Perpustakaan Unika

Kadar_Lemak	Baking Soda 0.1%	Mean		28.6600	.26170
		95% Confidence Interval for Mean	Lower Bound	28.0680	
			Upper Bound	29.2520	
		5% Trimmed Mean		28.6389	
		Median		28.6000	
		Variance		.685	
		Std. Deviation		.82758	
		Minimum		27.60	
		Maximum		30.10	
		Range		2.50	
		Interquartile Range		1.58	
		Skewness		.282	.687
		Kurtosis		-.783	1.334
	Baking Soda 0.25%	Mean		30.1400	.44826
		95% Confidence Interval for Mean	Lower Bound	29.1260	
			Upper Bound	31.1540	
		5% Trimmed Mean		30.1833	
		Median		30.0000	
		Variance		2.009	
		Std. Deviation		1.41751	
		Minimum		27.50	
		Maximum		32.00	
		Range		4.50	
		Interquartile Range		2.12	
		Skewness		-.414	.687
		Kurtosis		-.266	1.334
	Merang	Mean		29.1000	.30332
		95% Confidence Interval for Mean	Lower Bound	28.4139	
			Upper Bound	29.7861	
		5% Trimmed Mean		29.1167	
		Median		29.0500	
		Variance		.920	
		Std. Deviation		.95917	
		Minimum		27.60	
		Maximum		30.30	
		Range		2.70	
		Interquartile Range		1.82	
		Skewness		-.079	.687
		Kurtosis		-1.549	1.334

Perpustakaan Unika

SAPP 0.1%	Mean		32.0400	.25742
	95% Confidence Interval for Mean	Lower Bound	31.4577	
		Upper Bound	32.6223	
	5% Trimmed Mean		32.0000	
	Median		32.1500	
	Variance		.663	
	Std. Deviation		.81404	
	Minimum		31.20	
	Maximum		33.60	
	Range		2.40	
	Interquartile Range		1.30	
	Skewness		.553	.687
	Kurtosis		-.322	1.334
SAPP 0.2%	Mean		28.9650	.30877
	95% Confidence Interval for Mean	Lower Bound	28.2665	
		Upper Bound	29.6635	
	5% Trimmed Mean		28.9611	
	Median		29.1000	
	Variance		.953	
	Std. Deviation		.97640	
	Minimum		27.50	
	Maximum		30.50	
	Range		3.00	
	Interquartile Range		1.66	
	Skewness		-.039	.687
	Kurtosis		-1.043	1.334
SAPP 0.3%	Mean		27.8900	.32196
	95% Confidence Interval for Mean	Lower Bound	27.1617	
		Upper Bound	28.6183	
	5% Trimmed Mean		27.9278	
	Median		28.1500	
	Variance		1.037	
	Std. Deviation		1.01811	
	Minimum		25.90	
	Maximum		29.20	
	Range		3.30	
	Interquartile Range		1.40	
	Skewness		-.805	.687
	Kurtosis		.060	1.334
Kontrol	Mean		25.7200	.55293
	95% Confidence Interval for Mean	Lower Bound	24.4692	
		Upper Bound	26.9708	
	5% Trimmed Mean		25.7333	
	Median		25.7000	
	Variance		3.057	
	Std. Deviation		1.74852	
	Minimum		22.80	
	Maximum		28.40	
	Range		5.60	
	Interquartile Range		3.00	
	Skewness		-.123	.687
	Kurtosis		-.702	1.334

Perpustakaan Unika

Lampiran 12. Tabel Post Hoc Analisa Tekstur pada Adonan Gendar

Cohesiveness

Duncan

Perlakuan	N	Subset for alpha = 0.05	
		1	2
SAPP 0.1%	10	.2585	
Merang 0.25%	10	.2663	
SAPP 0.2%	10	.2700	
SAPP 0.3%	10	.2784	.2784
Baking Soda 0.1%	10	.2794	.2794
Kontrol	10	.2835	.2835
Baking Soda 0.25%	10		.3116
Sig.		.162	.052

Means for groups in homogeneous subsets are displayed.

Springiness

Duncan

Perlakuan	N	Subset for alpha = 0.05	
		1	2
Baking Soda 0.25%	10	8.5690	
Baking Soda 0.1%	10	8.6290	
SAPP 0.3%	10	8.6520	
Merang 0.25%	10	8.6560	
SAPP 0.2%	10	9.0200	
SAPP 0.1%	10	9.2970	
Kontrol	10		10.7480
Sig.		.072	1.000

Means for groups in homogeneous subsets are displayed.

Hardness

Duncan

Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
SAPP 0.3%	10	308.5340				
SAPP 0.2%	10	336.0260	336.0260			
Baking Soda 0.25%	10		366.7650	366.7650		
Kontrol	10			377.2690		
SAPP 0.1%	10			382.1650		
Baking Soda 0.1%	10				434.0160	
Merang 0.25%	10					522.5960
Sig.		.148	.106	.444	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Lampiran 13. Tabel Post Hoc Analisa *Break Strength* pada Kerupuk Gendar

Break_Strength_mentah

Duncan

Perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Baking Soda 0.25%	10	799.2330		
SAPP 0.2%	10		1123.7000	
Baking Soda 0.1%	10		1125.4920	
Kontrol	10		1149.8900	
SAPP 0.1%	10		1215.5000	
SAPP 0.3%	10			1894.8160
Merang 0.25%	10			1927.7120
Sig.		1.000	.528	.801

Means for groups in homogeneous subsets are displayed.

Break_Strength_grg

Duncan

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Kontrol	10	488.7000			
SAPP 0.3%	10	508.0000			
SAPP 0.1%	10	541.3110	541.3110		
Baking Soda 0.1%	10	545.6000	545.6000		
Baking Soda 0.25%	10		625.5000		
SAPP 0.2%	10			792.3410	
Merang 0.25%	10				1206.4000
Sig.		.292	.105	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Pengembangan

Duncan

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Baking Soda 0.1%	10	92.5680			
Merang 0.25%	10	103.0380			
Baking Soda 0.25%	10		145.2200		
SAPP 0.1%	10		147.0360		
SAPP 0.3%	10			169.1710	
SAPP 0.2%	10			170.1620	
Kontrol	10				187.2720
Sig.		.150	.801	.891	1.000

Means for groups in homogeneous subsets are displayed.

Perpustakaan Unika

Lampiran 14. Tabel Post Hoc Analisa Kimia pada Kerupuk Gendar

Kdr_Air

Duncan

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Baking Soda 0.1% _Mentah	10	8.2200			
Baking Soda 0.25% _Mentah	10	8.3000	8.3000		
SAPP 0.1%_Mentah	10		8.4000		
Merang_Mentah	10			8.6550	
SAPP 0.2%_Mentah	10			8.6550	
Kontrol_Mentah	10			8.7300	
SAPP 0.3%_Mentah	10				8.8500
Sig.		.163	.082	.217	1.000

Means for groups in homogeneous subsets are displayed.

Kadar_Air

Duncan

Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
Merang	10	.6700				
Baking Soda 0.1%	10	.6900				
SAPP 0.1%	10		.8850			
SAPP 0.3%	10		.9700	.9700		
SAPP 0.2%	10			1.0400	1.0400	
Kontrol	10				1.1150	
Baking Soda 0.25%	10					1.5550
Sig.		.670	.074	.139	.113	1.000

Means for groups in homogeneous subsets are displayed.

Kdr_Abu_Tanpa_Garam

Duncan

Perlakuan	N	Subset for alpha = 0.05	
		1	2
Merang_Mentah	10	.7100	
SAPP 0.1%_Mentah	10	.7180	
SAPP 0.2%_Mentah	10	.7540	
Baking Soda 0.1% _Mentah	10	.7800	
SAPP 0.3%_Mentah	10		.8610
Kontrol_Mentah	10		.8780
Baking Soda 0.25% _Mentah	10		.9120
Sig.		.098	.212

Means for groups in homogeneous subsets are displayed.

Kadar_Abu_Tnp_Grm

Duncan

Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
SAPP 0.1%	10	.6170				
SAPP 0.2%	10	.6550	.6550			
SAPP 0.3%	10		.6700	.6700		
Merang	10		.6780	.6780		
Baking Soda 0.1%	10			.7060		
Baking Soda 0.25%	10				.8730	
Kontrol	10					.9300
Sig.		.071	.301	.105	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Kdr_Lemak

Duncan

Perlakuan	N	Subset for alpha = 0.05	
		1	2
Merang_Mentah	10	.2400	
Baking Soda 0.1% _Mentah	10		.8600
Kontrol_Mentah	10		.8600
SAPP 0.1%_Mentah	10		.9000
Baking Soda 0.25% _Mentah	10		.9600
SAPP 0.3%_Mentah	10		.9900
SAPP 0.2%_Mentah	10		1.0700
Sig.		1.000	.056

Means for groups in homogeneous subsets are displayed.

Kadar_Lemak

Duncan

Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
Kontrol	10	25.7200				
SAPP 0.3%	10		27.8900			
Baking Soda 0.1%	10		28.6600	28.6600		
SAPP 0.2%	10		28.9650	28.9650		
Merang	10			29.1000		
Baking Soda 0.25%	10				30.1400	
SAPP 0.1%	10					32.0400
Sig.		1.000	.052	.427	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Perpustakaan Unika

Lampiran 15. Hasil Uji Beda Nyata antar Perlakuan pada Uji Warna, Kenampakan, Kerenyahan, Rasa, dan Overall

- **Warna**

Perlakuan Baking Soda 0.1% vs Baking Soda 0.25%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.1%	30	34.28	1028.50
	Baking Soda 0.25%	30	26.72	801.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	336.500
Wilcoxon W	801.500
Z	-1.699
Asymp. Sig. (2-tailed)	.089

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.1%	30	39.15	1174.50
	Merang	30	21.85	655.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	190.500
Wilcoxon W	655.500
Z	-3.906
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0.1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.1%	30	33.77	1013.00
	SAPP 0.1%	30	27.23	817.00
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	352.000
Wilcoxon W	817.000
Z	-1.471
Asymp. Sig. (2-tailed)	.141

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.1%	30	34.30	1029.00
	SAPP 0.2%	30	26.70	801.00
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	336.000
Wilcoxon W	801.000
Z	-1.713
Asymp. Sig. (2-tailed)	.087

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.1%	30	34.45	1033.50
	SAPP 0.3%	30	26.55	796.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	331.500
Wilcoxon W	796.500
Z	-1.797
Asymp. Sig. (2-tailed)	.072

Perlakuan Baking Soda 0.1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.1%	30	31.05	931.50
	Kontrol	30	29.95	898.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	433.500
Wilcoxon W	898.500
Z	-.249
Asymp. Sig. (2-tailed)	.804

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.25%	30	36.88	1106.50
	Merang	30	24.12	723.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	258.500
Wilcoxon W	723.500
Z	-2.889
Asymp. Sig. (2-tailed)	.004

Perlakuan Baking Soda 0.25% vs SAPP 0.1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.25%	30	31.08	932.50
	SAPP 0.1%	30	29.92	897.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	430.000
Wilcoxon W	895.000
Z	-.301
Asymp. Sig. (2-tailed)	.763

a. Grouping Variable: Perlakuan

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Perlakuan Baking Soda 0.25% vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.25%	30	31.17	935.00
	SAPP 0.2%	30	29.83	895.00
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	430.000
Wilcoxon W	895.000
Z	-.301
Asymp. Sig. (2-tailed)	.763

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.25%	30	31.90	957.00
	SAPP 0.3%	30	29.10	873.00
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	408.000
Wilcoxon W	873.000
Z	-.629
Asymp. Sig. (2-tailed)	.529

Perlakuan Baking Soda 0.25% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Baking Soda 0.25%	30	26.25	787.50
	Kontrol	30	34.75	1042.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	322.500
Wilcoxon W	787.500
Z	-1.917
Asymp. Sig. (2-tailed)	.055

Perlakuan Merang vs SAPP 0.1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Merang	30	23.20	696.00
	SAPP 0.1%	30	37.80	1134.00
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	231.000
Wilcoxon W	696.000
Z	-3.289
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Perlakuan

Perlakuan Merang vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Merang	30	22.98	689.50
	SAPP 0.2%	30	38.02	1140.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	224.500
Wilcoxon W	689.500
Z	-3.393
Asymp. Sig. (2-tailed)	.001

Perlakuan Merang vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Merang	30	26.62	798.50
	SAPP 0.3%	30	34.38	1031.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	333.500
Wilcoxon W	798.500
Z	-1.784
Asymp. Sig. (2-tailed)	.074

Perlakuan Merang vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	Merang	30	26.62	798.50
	SAPP 0.3%	30	34.38	1031.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	172.000
Wilcoxon W	637.000
Z	-4.172
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.1% vs SAPP 0.2 %

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	SAPP 0.1%	30	30.52	915.50
	SAPP 0.2%	30	30.48	914.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	449.500
Wilcoxon W	914.500
Z	-.008
Asymp. Sig. (2-tailed)	.994

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.1% vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	SAPP 0.1%	30	32.85	985.50
	SAPP 0.3%	30	28.15	844.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	379.500
Wilcoxon W	844.500
Z	-1.057
Asymp. Sig. (2-tailed)	.290

a. Grouping Variable: Perlakuan

Perpustakaan Unika

Perlakuan SAPP 0.1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	SAPP 0.1%	30	25.68	770.50
	Kontrol	30	35.32	1059.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	305.500
Wilcoxon W	770.500
Z	-2.170
Asymp. Sig. (2-tailed)	.030

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.2% vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	SAPP 0.2%	30	32.62	978.50
	SAPP 0.3%	30	28.38	851.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	386.500
Wilcoxon W	851.500
Z	-.950
Asymp. Sig. (2-tailed)	.342

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.2% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	SAPP 0.2%	30	25.35	760.50
	Kontrol	30	35.65	1069.50
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	295.500
Wilcoxon W	760.500
Z	-2.326
Asymp. Sig. (2-tailed)	.020

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.3% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	SAPP 0.3%	30	26.43	793.00
	Kontrol	30	34.57	1037.00
	Total	60		

Test Statistics[a]

	Warna
Mann-Whitney U	328.000
Wilcoxon W	793.000
Z	-1.829
Asymp. Sig. (2-tailed)	.067

a. Grouping Variable: Perlakuan

- **Kenampakan**

Perlakuan Baking Soda 0.1% vs Baking Soda 0.25%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.1%	30	27.50	825.00
	Baking Soda 0.25%	30	33.50	1005.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	360.000
Wilcoxon W	825.000
Z	-1.346
Asymp. Sig. (2-tailed)	.178

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.1%	30	37.03	1111.00
	Merang	30	23.97	719.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	254.000
Wilcoxon W	719.000
Z	-2.988
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0.1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.1%	30	26.20	786.00
	SAPP 0.1%	30	34.80	1044.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	321.000
Wilcoxon W	786.000
Z	-1.936
Asymp. Sig. (2-tailed)	.053

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.1%	30	30.08	902.50
	SAPP 0.2%	30	30.92	927.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	437.500
Wilcoxon W	902.500
Z	-.189
Asymp. Sig. (2-tailed)	.850

a. Grouping Variable: Perlakuan

Perpustakaan Unika

Perlakuan Baking Soda 0.1% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.1%	30	37.03	1111.00
	Merang	30	23.97	719.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	254.000
Wilcoxon W	719.000
Z	-2.988
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0.1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.1%	30	26.20	786.00
	SAPP 0.1%	30	34.80	1044.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	321.000
Wilcoxon W	786.000
Z	-1.936
Asymp. Sig. (2-tailed)	.053

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.1%	30	30.08	902.50
	SAPP 0.2%	30	30.92	927.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	437.500
Wilcoxon W	902.500
Z	-.189
Asymp. Sig. (2-tailed)	.850

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.1%	30	28.85	865.50
	SAPP 0.3%	30	32.15	964.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	400.500
Wilcoxon W	865.500
Z	-.742
Asymp. Sig. (2-tailed)	.458

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.1%	30	25.28	758.50
	Kontrol	30	35.72	1071.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	400.500
Wilcoxon W	865.500
Z	-.742
Asymp. Sig. (2-tailed)	.458

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.25%	30	38.72	1161.50
	Merang	30	22.28	668.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	203.500
Wilcoxon W	668.500
Z	-3.736
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0.1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.25%	30	29.38	881.50
	SAPP 0.1%	30	31.62	948.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	416.500
Wilcoxon W	881.500
Z	-.504
Asymp. Sig. (2-tailed)	.614

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.25%	30	34.15	1024.50
	SAPP 0.2%	30	26.85	805.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	340.500
Wilcoxon W	805.500
Z	-1.642
Asymp. Sig. (2-tailed)	.101

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.25%	30	31.03	931.00
	SAPP 0.3%	30	29.97	899.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	434.000
Wilcoxon W	899.000
Z	-.239
Asymp. Sig. (2-tailed)	.811

a. Grouping Variable: Perlakuan

Perpustakaan Unika

Perlakuan Baking Soda 0.25% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Baking Soda 0.25%	30	28.02	840.50
	Kontrol	30	32.98	989.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	375.500
Wilcoxon W	840.500
Z	-1.120
Asymp. Sig. (2-tailed)	.263

a. Grouping Variable: Perlakuan

Perlakuan Merang vs SAPP 0.1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Merang	30	21.23	637.00
	SAPP 0.1%	30	39.77	1193.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	172.000
Wilcoxon W	637.000
Z	-4.189
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan Merang vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Merang	30	23.35	700.50
	SAPP 0.2%	30	37.65	1129.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	235.500
Wilcoxon W	700.500
Z	-3.248
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Perlakuan

Perlakuan Merang vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	Merang	30	23.40	702.00
	SAPP 0.3%	30	37.60	1128.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	237.000
Wilcoxon W	702.000
Z	-3.257
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Perlakuan

Perlakuan Merang vs Kontrol

Ranks

	Perla...	N	Mean Rank	Sum of Ranks
Kenampakan	Merang	30	20.68	620.50
	Kontrol	30	40.32	1209.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	155.500
Wilcoxon W	620.500
Z	-4.445
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.1% vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	SAPP 0.1%	30	35.43	1063.00
	SAPP 0.2%	30	25.57	767.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	302.000
Wilcoxon W	767.000
Z	-2.220
Asymp. Sig. (2-tailed)	.026

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.1% vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	SAPP 0.1%	30	32.12	963.50
	SAPP 0.3%	30	28.88	866.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	401.500
Wilcoxon W	866.500
Z	-.726
Asymp. Sig. (2-tailed)	.468

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	SAPP 0.1%	30	29.07	872.00
	Kontrol	30	31.93	958.00
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	407.000
Wilcoxon W	872.000
Z	-.647
Asymp. Sig. (2-tailed)	.517

Perlakuan SAPP 0.2% vs SAPP 0.3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	SAPP 0.2%	30	28.58	857.50
	SAPP 0.3%	30	32.42	972.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	392.500
Wilcoxon W	857.500
Z	-.861
Asymp. Sig. (2-tailed)	.389

a. Grouping Variable: Perlakuan

Perpustakaan Unika

Perlakuan SAPP 0.2% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	SAPP 0.2%	30	24.32	729.50
	Kontrol	30	36.68	1100.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	264.500
Wilcoxon W	729.500
Z	-2.782
Asymp. Sig. (2-tailed)	.005

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.3% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kenampakan	SAPP 0.3%	30	27.85	835.50
	Kontrol	30	33.15	994.50
	Total	60		

Test Statistics[a]

	Kenampakan
Mann-Whitney U	370.500
Wilcoxon W	835.500
Z	-1.192
Asymp. Sig. (2-tailed)	.233

a. Grouping Variable: Perlakuan

- **Kerenyahan**

Perlakuan Baking Soda 0.1% vs Baking Soda 0,25%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.1%	30	24.30	729.00
	Baking Soda 0.25%	30	36.70	1101.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	264.000
Wilcoxon W	729.000
Z	-2.788
Asymp. Sig. (2-tailed)	.005

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.1%	30	36.47	1094.00
	Merang	30	24.53	736.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	271.000
Wilcoxon W	736.000
Z	-2.755
Asymp. Sig. (2-tailed)	.006

Perlakuan Baking Soda 0.1% vs SAPP 0,1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.1%	30	23.33	700.00
	SAPP 0.1%	30	37.67	1130.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	235.000
Wilcoxon W	700.000
Z	-3.233
Asymp. Sig. (2-tailed)	.001

Perlakuan Baking Soda 0.1% vs SAPP 0,2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.1%	30	26.27	788.00
	SAPP 0.2%	30	34.73	1042.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	323.000
Wilcoxon W	788.000
Z	-1.916
Asymp. Sig. (2-tailed)	.055

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.1%	30	25.47	764.00
	SAPP 0.3%	30	35.53	1066.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	299.000
Wilcoxon W	764.000
Z	-2.259
Asymp. Sig. (2-tailed)	.024

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.1%	30	22.97	689.00
	Kontrol	30	38.03	1141.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	224.000
Wilcoxon W	689.000
Z	-3.387
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.25%	30	41.20	1236.00
	Merang	30	19.80	594.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	129.000
Wilcoxon W	594.000
Z	-4.842
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perpustakaan Unika

Perlakuan Baking Soda 0.25% vs SAPP 0,1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.25%	30	29.12	873.50
	SAPP 0.1%	30	31.88	956.50
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	408.500
Wilcoxon W	873.500
Z	-.632
Asymp. Sig. (2-tailed)	.528

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0,2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.25%	30	32.12	963.50
	SAPP 0.2%	30	28.88	866.50
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	401.500
Wilcoxon W	866.500
Z	-.730
Asymp. Sig. (2-tailed)	.465

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.25%	30	30.42	912.50
	SAPP 0.3%	30	30.58	917.50
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	447.500
Wilcoxon W	912.500
Z	-.037
Asymp. Sig. (2-tailed)	.970

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Baking Soda 0.25%	30	28.20	846.00
	Kontrol	30	32.80	984.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	381.000
Wilcoxon W	846.000
Z	-1.037
Asymp. Sig. (2-tailed)	.300

a. Grouping Variable: Perlakuan

Perlakuan Merang vs SAPP 0,1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Merang	30	19.05	571.50
	SAPP 0.1%	30	41.95	1258.50
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	106.500
Wilcoxon W	571.500
Z	-5.243
Asymp. Sig. (2-tailed)	.000

Perlakuan Merang vs SAPP 0,2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Merang	30	21.18	635.50
	SAPP 0.2%	30	39.82	1194.50
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	170.500
Wilcoxon W	635.500
Z	-4.240
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan Merang vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	Merang	30	21.30	639.00
	SAPP 0.3%	30	39.70	1191.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	174.000
Wilcoxon W	639.000
Z	-4.203
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan Merang vs Kontrol

Ranks

	Perla...	N	Mean Rank	Sum of Ranks
Kerenyahan	Merang	30	18.98	569.50
	Kontrol	30	42.02	1260.50
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	104.500
Wilcoxon W	569.500
Z	-5.206
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perpustakaan Unika

Perlakuan SAPP 0,1% vs SAPP 0,2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	SAPP 0.1%	30	32.73	982.00
	SAPP 0.2%	30	28.27	848.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	383.000
Wilcoxon W	848.000
Z	-1.007
Asymp. Sig. (2-tailed)	.314

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.1% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	SAPP 0.1%	30	30.78	923.50
	SAPP 0.3%	30	30.22	906.50
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	441.500
Wilcoxon W	906.500
Z	-.129
Asymp. Sig. (2-tailed)	.897

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	SAPP 0.1%	30	27.93	838.00
	Kontrol	30	33.07	992.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	373.000
Wilcoxon W	838.000
Z	-1.175
Asymp. Sig. (2-tailed)	.240

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.2% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	SAPP 0.2%	30	29.63	889.00
	SAPP 0.3%	30	31.37	941.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	373.000
Wilcoxon W	838.000
Z	-1.175
Asymp. Sig. (2-tailed)	.240

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,2% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	SAPP 0.2%	30	27.47	824.00
	Kontrol	30	33.53	1006.00
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	359.000
Wilcoxon W	824.000
Z	-1.370
Asymp. Sig. (2-tailed)	.171

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,3% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Kerenyahan	SAPP 0.3%	30	28.48	854.50
	Kontrol	30	32.52	975.50
	Total	60		

Test Statistics[a]

	Kerenyahan
Mann-Whitney U	389.500
Wilcoxon W	854.500
Z	-.909
Asymp. Sig. (2-tailed)	.363

- **P[illegible]**

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Baking Soda 0.1%	30	26.02	780.50
	Baking Soda 0.25%	30	34.98	1049.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	315.500
Wilcoxon W	780.500
Z	-2.018
Asymp. Sig. (2-tailed)	.044

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Baking Soda 0.1%	30	34.48	1034.50
	Merang	30	26.52	795.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	286.500
Wilcoxon W	751.500
Z	-2.454
Asymp. Sig. (2-tailed)	.014

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0,1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Baking Soda 0.1%	30	25.05	751.50
	SAPP 0.1%	30	35.95	1078.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	286.500
Wilcoxon W	751.500
Z	-2.454
Asymp. Sig. (2-tailed)	.014

a. Grouping Variable: Perlakuan

Perpustakaan Unika

Perlakuan Baking Soda 0.1% vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Baking Soda 0.1%	30	34.52	1035.50
	SAPP 0.2%	30	26.48	794.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	329.500
Wilcoxon W	794.500
Z	-1.823
Asymp. Sig. (2-tailed)	.068

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Baking Soda 0.1%	30	22.20	666.00
	Kontrol	30	38.80	1164.00
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	201.000
Wilcoxon W	666.000
Z	-3.739
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Baking Soda 0.25%	30	36.98	1109.50
	Merang	30	24.02	720.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	255.500
Wilcoxon W	720.500
Z	-2.941
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0,1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Baking Soda 0.25%	30	29.47	884.00
	SAPP 0.1%	30	31.53	946.00
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	419.000
Wilcoxon W	884.000
Z	-.467
Asymp. Sig. (2-tailed)	.640

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0,2%

Perlakuan Baking Soda 0.25% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Baking Soda 0.25%	30	31.12	933.50
	SAPP 0.3%	30	29.88	896.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	431.500
Wilcoxon W	896.500
Z	-.277
Asymp. Sig. (2-tailed)	.782

Perlakuan Baking Soda 0.25% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Baking Soda 0.25%	30	25.20	756.00
	Kontrol	30	35.80	1074.00
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	291.000
Wilcoxon W	756.000
Z	-2.400
Asymp. Sig. (2-tailed)	.016

Perlakuan Merang vs SAPP 0.1%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Merang	30	22.97	689.00
	SAPP 0.1%	30	38.03	1141.00
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	224.000
Wilcoxon W	689.000
Z	-3.398
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Perlakuan

Perlakuan Merang vs SAPP 0.2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Merang	30	29.08	872.50
	SAPP 0.2%	30	31.92	957.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	407.500
Wilcoxon W	872.500
Z	-.647
Asymp. Sig. (2-tailed)	.517

a. Grouping Variable: Perlakuan

Perlakuan Merang vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	Merang	30	24.53	736.00
	SAPP 0.3%	30	36.47	1094.00
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	271.000
Wilcoxon W	736.000
Z	-2.704
Asymp. Sig. (2-tailed)	.007

a. Grouping Variable: Perlakuan

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Perlakuan Merang vs Kontrol

Ranks

	Perla...	N	Mean Rank	Sum of Ranks
Rasa	Merang	30	20.53	616.00
	Kontrol	30	40.47	1214.00
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	151.000
Wilcoxon W	616.000
Z	-4.505
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,1% vs SAPP 0,2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	SAPP 0.1%	30	39.48	1184.50
	SAPP 0.2%	30	21.52	645.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	180.500
Wilcoxon W	645.500
Z	-4.042
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.1% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	SAPP 0.1%	30	32.18	965.50
	SAPP 0.3%	30	28.82	864.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	399.500
Wilcoxon W	864.500
Z	-.756
Asymp. Sig. (2-tailed)	.450

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	SAPP 0.1%	30	26.22	786.50
	Kontrol	30	34.78	1043.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	321.500
Wilcoxon W	786.500
Z	-1.942
Asymp. Sig. (2-tailed)	.052

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0.2% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	SAPP 0.2%	30	25.65	769.50
	SAPP 0.3%	30	35.35	1060.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	304.500
Wilcoxon W	769.500
Z	-2.191
Asymp. Sig. (2-tailed)	.028

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,2% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	SAPP 0.2%	30	19.87	596.00
	Kontrol	30	41.13	1234.00
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	131.000
Wilcoxon W	596.000
Z	-4.792
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,3% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	SAPP 0.3%	30	25.48	764.50
	Kontrol	30	35.52	1065.50
	Total	60		

Test Statistics[a]

	Rasa
Mann-Whitney U	299.500
Wilcoxon W	764.500
Z	-2.294
Asymp. Sig. (2-tailed)	.022

a. Grouping Variable: Perlakuan

- **Overall**

Perlakuan Baking Soda 0.1% vs Baking Soda 0,25%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	Baking Soda 0.1%	30	25.42	762.50
	Baking Soda 0.25%	30	35.58	1067.50
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	297.500
Wilcoxon W	762.500
Z	-2.290
Asymp. Sig. (2-tailed)	.022

a. Grouping Variable: Perlakuan

Perpustakaan Unika

Perlakuan Baking Soda 0.1% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	Baking Soda 0.1%	30	36.83	1105.00
	Merang	30	24.17	725.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	260.000
Wilcoxon W	725.000
Z	-2.923
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0,2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	Baking Soda 0.1%	30	29.17	875.00
	SAPP 0.2%	30	31.83	955.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	410.000
Wilcoxon W	875.000
Z	-.605
Asymp. Sig. (2-tailed)	.545

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	Baking Soda 0.1%	30	24.67	740.00
	SAPP 0.3%	30	36.33	1090.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	275.000
Wilcoxon W	740.000
Z	-2.620
Asymp. Sig. (2-tailed)	.009

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	Baking Soda 0.1%	30	23.18	695.50
	Kontrol	30	37.82	1134.50
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	230.500
Wilcoxon W	695.500
Z	-3.284
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs Merang

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	Baking Soda 0.25%	30	40.83	1225.00
	Merang	30	20.17	605.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	140.000
Wilcoxon W	605.000
Z	-4.713
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0,2%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	Baking Soda 0.25%	30	35.83	1075.00
	SAPP 0.2%	30	25.17	755.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	290.000
Wilcoxon W	755.000
Z	-2.402
Asymp. Sig. (2-tailed)	.016

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	Baking Soda 0.25%	30	28.37	851.00
	SAPP 0.3%	30	32.63	979.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	386.000
Wilcoxon W	851.000
Z	-.959
Asymp. Sig. (2-tailed)	.337

a. Grouping Variable: Perlakuan

Perlakuan Baking Soda 0.25% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	Baking Soda 0.25%	30	27.97	839.00
	Kontrol	30	33.03	991.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	374.000
Wilcoxon W	839.000
Z	-1.142
Asymp. Sig. (2-tailed)	.253

a. Grouping Variable: Perlakuan

Perpustakaan Unika

Perlakuan Merang vs Kontrol

Ranks

	Perla...	N	Mean Rank	Sum of Ranks
Overall	Merang	30	19.27	578.00
	Kontrol	30	41.73	1252.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	113.000
Wilcoxon W	578.000
Z	-5.092
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,1% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	SAPP 0.1%	30	29.15	874.50
	Kontrol	30	31.85	955.50
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	409.500
Wilcoxon W	874.500
Z	-.610
Asymp. Sig. (2-tailed)	.542

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,2% vs SAPP 0,3%

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	SAPP 0.2%	30	25.50	765.00
	SAPP 0.3%	30	35.50	1065.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	300.000
Wilcoxon W	765.000
Z	-2.254
Asymp. Sig. (2-tailed)	.024

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,2% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	SAPP 0.2%	30	23.70	711.00
	Kontrol	30	37.30	1119.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	246.000
Wilcoxon W	711.000
Z	-3.077
Asymp. Sig. (2-tailed)	.002

a. Grouping Variable: Perlakuan

Perlakuan SAPP 0,3% vs Kontrol

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	SAPP 0.3%	30	29.73	892.00
	Kontrol	30	31.27	938.00
	Total	60		

Test Statistics[a]

	Overall
Mann-Whitney U	427.000
Wilcoxon W	892.000
Z	-.351
Asymp. Sig. (2-tailed)	.726

a. Grouping Variable: Perlakuan

Lampiran 17. Hasil *Dunnett's Multiple Comparisons*

Multiple Comparisons

Tingkat_Beda
Dunnett t (2-sided)

(I) Sampel	(J) Sampel	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
SAPP 0,1%	Blind Control	1.3333*	.25724	.000	.6665	2.0002
SAPP 0,2%	Blind Control	1.2000*	.25724	.000	.5331	1.8669
SAPP 0,3%	Blind Control	1.9333*	.25724	.000	1.2665	2.6002
Baking Soda 0,1%	Blind Control	2.0333*	.25724	.000	1.3665	2.7002
Baking Soda 0,25%	Blind Control	1.9667*	.25724	.000	1.2998	2.6335
Merang 0,2%	Blind Control	2.6333*	.25724	.000	1.9665	3.3002

Based on observed means.
The error term is Mean Square(Error) = ,993.

*. The mean difference is significant at the ,05 level.