



LAMPIRAN

Lampiran A. Kadar Air Kacang Merah dan Kulit Pisang

A1. Data kadar air kulit pisang

Tabel A. 1 Data kadar air kulit pisang sebelum pengeringan

Replikasi	Berat sampel (g)	Berat cawan penguapan (g)	Berat sampel + cawan akhir (g)	Kadar air (% ,bb)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
1	5,3217	26,1489	26,9784	84,41	84,46±0,05	84,49±0,04
	5,4158	28,5379	29,3775	84,50		
2	5,4336	22,739	23,5619	84,86	84,52±0,47	
	5,5576	21,1247	22,0041	84,18		

Contoh perhitungan

$$\text{Kadar air (\%,bb)} = \frac{W_0 - (W_2 - W_1)}{W_0} \times 100\%$$

Keterangan:

W_0 : Berat sampel awal (g)

W_1 : Berat cawan penguapan konstan (g)

W_2 : Berat cawan + sampel kering konstan (g)

Replikasi 1 (1):

$$\text{Kadar air (\%,bb)} = \frac{(5,3217) - (26,9784 - 26,1489)}{5,3217} \times 100\% = 84,41287558\%$$

Tabel A. 2 Data kadar air kulit pisang kering

Replikasi	Berat sampel (g)	Berat cawan penguapan (g)	Berat sampel + cawan akhir (g)	Kadar air (% ,bb)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
1	5,5504	22,4326	27,387	10,74	10,73±0,01	10,62±0,17
	5,0774	23,9457	28,4783	10,73		
2	5,0799	27,3228	31,873	10,43	10,50±0,09	
	5,0378	23,2808	27,7862	10,57		

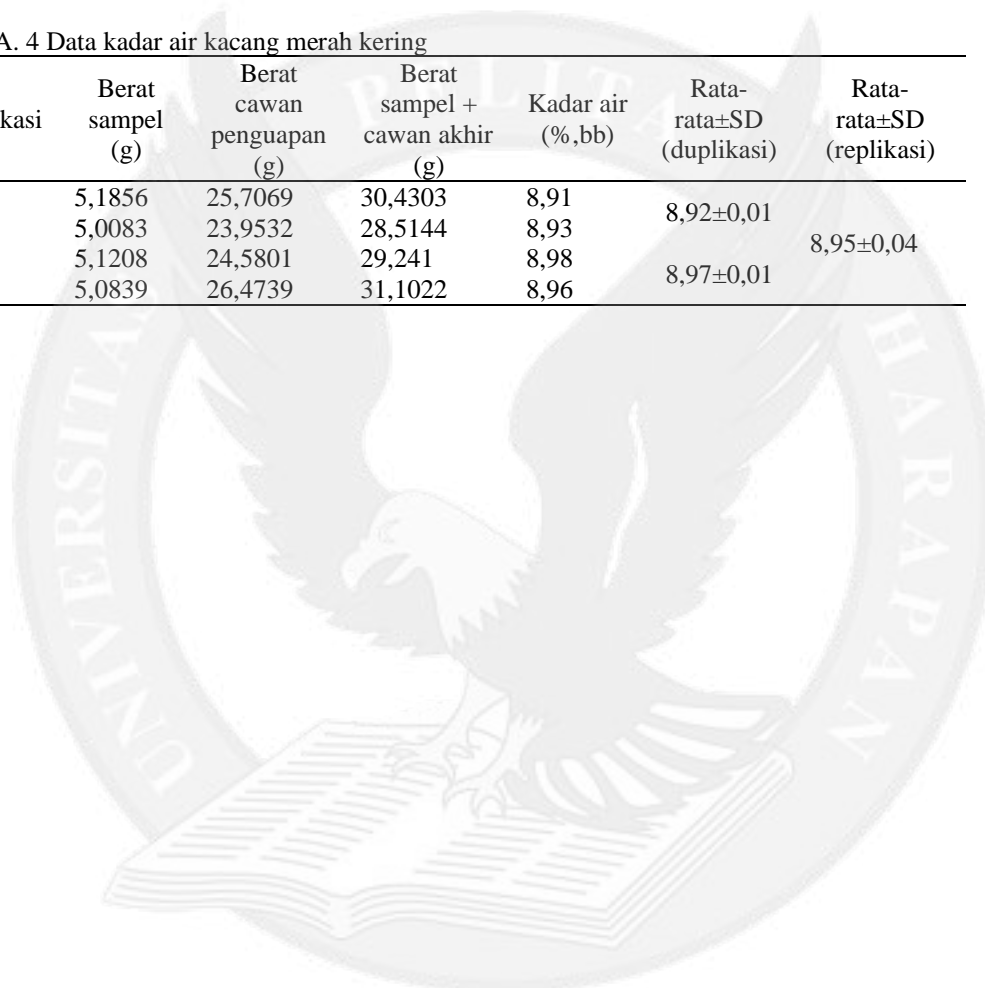
A2. Data kadar air kacang merah

Tabel A. 3 Data kadar air kacang merah sebelum perlakuan

Replikasi	Berat sampel (g)	Berat cawan penguapan (g)	Berat sampel + cawan akhir (g)	Kadar air (% ,bb)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
1	5,0403	22,4044	24,3172	62,05	62,12±0,09	62,16±0,07
	5,1168	20,4686	22,4037	62,18		
2	5,1184	26,5966	28,5303	62,22	62,21±0,01	
	5,0992	25,9672	27,8949	62,20		

Tabel A. 4 Data kadar air kacang merah kering

Replikasi	Berat sampel (g)	Berat cawan penguapan (g)	Berat sampel + cawan akhir (g)	Kadar air (% ,bb)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
1	5,1856	25,7069	30,4303	8,91	8,92±0,01	8,95±0,04
	5,0083	23,9532	28,5144	8,93		
2	5,1208	24,5801	29,241	8,98	8,97±0,01	
	5,0839	26,4739	31,1022	8,96		



Lampiran B. Rendemen Tepung Kacang Merah dan Tepung Kulit Pisang

B1. Data rendemen tepung kacang merah

Tabel B. 1 Data rendemen tepung kacang merah

Keterangan	Pengulangan	Berat bahan mentah	Kadar Air bahan mentah	Berat kering Bahan mentah	Berat Produk	Kadar air produk	Berat Kering Produk	Rendemen	Rata-rata
Tepung Kacang Merah	1	4021,09	62,11565975	1523,363417	435,47	6,692342564	406,3268558	26,67300864	
	2	1198,74	62,20832328	453,0239455	133,98	6,67362477	125,0386775	27,60089809	27,14±0,66

Contoh perhitungan

$$\text{Rendemen (\%,bk)} = \frac{(W_1 \times (100\% - P_1\%))}{(W_0 \times (100\% - P_0\%))} \times 100\%$$

Keterangan:

W₀ : Berat sampel bahan (g)

W₁ : Berat sampel produk (g)

P₀ : Kadar air bahan(%)

P₁ : Kadar air produk (%)

Replikasi 1 (1):

$$\text{Rendemen (\%,bk)} = \frac{435.47 \times (100\% - 6.69\%)}{4021.09 \times (100\% - 62.12\%)} \times 100\% = 26,67300864\%$$

B2. Data rendemen tepung kulit pisang

Tabel B. 2 Data rendemen tepung kulit pisang

Keterangan	Pengulangan	Berat bahan mentah	Kadar Air bahan mentah	Berat kering Bahan mentah	Berat Produk	Kadar air produk	Berat Kering Produk	Rendemen	Rata-rata
Tepung Kulit	1	5537,02	84,45504372	860,727338	487,31	7,369947337	451,3955096	52,4434963	
Pisang	2	2026,07	84,51598376	313,7170078	174,18	7,442260698	161,2170703	51,38933061	51.92±0,75

Lampiran C. Proksimat Tepung Kacang Merah dan Tepung Kulit Pisang

C1. Data proksimat tepung kacang merah dan tepung kulit pisang

Tabel C. 1 Data kadar air tepung kacang merah dan tepung kulit pisang

Keterangan	Replikasi	Berat sampel + cawan akhir (g)	Berat cawan penguapan (g)	Berat sampel (g)	Kadar air (% ,bb)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Tepung Kacang Merah	1	26,4529	21,7789	5,0042	6,598457296	6,70±0,13	6,68±0,01
		26,2843	21,6169	5,0072	6,786227832		
	2	26,4114	24,2674	2,2949	6,575449911	6,67±0,14	
		25,5253	23,6158	2,0482	6,771799629		
Tepung Kulit Pisang	1	26,5694	21,9427	5,0074	7,602747933	7,37±0,33	7,41±0,05
		28,3895	23,7432	5,0034	7,13714674		
	2	20,7393	18,7198	2,1793	7,332629743	7,44±0,16	
		23,2342	21,3502	2,0379	7,551891653		

Tabel C. 2 Data kadar abu tepung kacang merah dan tepung kulit pisang

Keterangan	Replikasi	Berat cawan + sampel (g)	Berat cawan kosong (g)	Berat sampel awal (g)	Berat sampel kering (g)	Kadar abu (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Tepung Kacang Merah	1	28,0837	27,9269	5,004	4,6691	3,3582	3,36 ±0,01	3,35±0,01
		19,6912	19,5342	5,0192	4,6833	3,3524		
	2	21,2791	21,1197	5,0116	4,6771	3,4081	3,35±0,08	
		28,093	27,9321	5,2336	4,8843	3,2942		
Tepung Kulit Pisang	1	31,619	31,0651	5,0166	4,6469	11,9198	11,91±0,02	12,17±0,36
		24,4518	23,8998	5,0103	4,6410	11,8939		
	2	32,1782	31,5759	5,2463	4,8558	12,4036	12,42±0,03	
		31,6633	31,0651	5,1929	4,8064	12,4458		

Contoh perhitungan

$$\text{Kadar abu (\%,bk)} = \frac{(W_2 - W_1)}{W_0} \times 100\%$$

Keterangan:

W_0 : Berat sampel awal (g)

W_1 : Berat cawan pengabuan konstan (g)

W_2 : Berat cawan pengabuan + sampel kering konstan (g)

Replikasi 1 Tepung kacang merah (1):

$$\text{Kadar abu (\%,bk)} = \frac{(28.0837 - 27.9269)}{4.6691} \times 100\% = 3,358237996\%$$

Tabel C.3 Data kadar lemak tepung kacang merah dan tepung kulit pisang

Keterangan	Replikasi	Berat labu+sampel (g)	Berat labu kosong (g)	Berat sampel awal (g)	Berat sampel kering (g)	Kadar lemak (%.bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Tepung Kacang Merah	1	136,6924	136,6212	5,0116	4,6762	1,5226	1,55±0,04	1,65±0,13
		112,0731	111,9984	5,0662	4,7272	1,5802		
	2	136,6536	136,6212	2,0634	6,6736	1,6825	1,75±0,09	
		118,8902	118,8556	2,0482	6,6736	1,8101		
Tepung Kulit Pisang	1	129,7320	129,1185	5,0481	4,6761	13,1200	13,39±0,38	13,06±0,45
		120,7021	120,0693	5,0034	4,6346	13,6537		
	2	136,9734	136,7297	2,1793	7,4422	12,0816	12,74±0,93	
		129,3713	129,1185	2,0379	7,442	13,4024		

Contoh perhitungan

$$\text{Kadar lemak (\%,bk)} = \frac{(W_2 - W_1)}{W_0} \times 100\%$$

Keterangan:

W₀ : Berat sampel awal (g)

W₁ : Berat labu lemak konstan (g)

W₂ : Berat labu lemak + sampel kering konstan (g)

Replikasi 1 Tepung kacang merah (1):

$$\text{Kadar lemak (\%,bk)} = \frac{(136.6924 - 136.6212)}{4.6762} \times 100\% = 1,5226\%$$

Tabel C. 4 Data kadar protein tepung kacang merah dan tepung kulit pisang

Keterangan	Replikasi	Volume sampel (mL)	Volume blanko (mL)	Correct acid (mL)	Berat sampel awal (g)	Berat sampel kering (g)	% Nitrogen	Kadar protein (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Tepung Kacang Merah	1	32,92	0,05	32,87	2,0144	1,8796	4,8966	30,6038	30,70±0,14	30,72±0,02
		33,34	0,05	33,29	2,027	1,8913	4,9283	30,8021		
	2	33,19	0,05	33,14	2,0222	1,8872	4,9168	30,7299		
		33	0,05	32,95	2,0097	1,8756	4,9190	30,7438		
Tepung Kulit Pisang	1	8,01	0,05	7,96	2,0074	1,8595	1,1986	7,7933	7,87±0,10	7,73±0,19
		8,2	0,05	8,15	2,0175	1,8688	1,2211	7,9373		
	2	8,56	0,05	8,51	2,0882	1,9328	1,2328	7,7052		
		8,12	0,05	8,07	2,0378	1,8861	1,1980	7,4875		

Contoh perhitungan

$$\text{Nitrogen (\%)} = \frac{(\text{ml HCl sampel} - \text{ml HCl blank}) \times \text{N HCl} \left(\frac{\text{mol}}{\text{L}}\right) \times 14 \left(\frac{\text{g}}{\text{mol}}\right)}{\text{berat sampel (g)} \times 1000} \times 100\%$$

Kadar protein (% ,bk) = % Nitrogen x faktor protein

Replikasi 1 Tepung kacang merah (1):

$$\text{Nitrogen (\%)} = \frac{(32,92 - 0,05) \times 0,2 \times 14}{1,8796 \times 1000} \times 100\% = 4,8966\%$$

$$\text{Kadar protein (\%,bk)} = 4,8966\% \times 6,25 = 30,6038\%$$

Tabel C.5 Data kadar karbohidrat tepung kacang merah dan tepung kulit pisang

Keterangan	Replikasi	Kadar air (% ,bb)	Kadar lemak (% ,bb)	Kadar protein (% ,bb)	Kadar abu (% ,bb)	Kadar karbohidrat (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Tepung Kacang Merah	1	6,60	3,36	1,52	30,60	57,92	57,70±0,31	57,60±0,14
		6,79	3,35	1,58	30,80	57,48		
	2	6,58	3,41	1,68	30,73	57,60	57,49±0,16	
		6,77	3,29	1,81	30,74	57,38		
Tepung Kulit Pisang	1	7,60	11,92	13,12	7,79	59,87	59,77±0,13	59,78±0,01
		7,14	11,89	13,65	7,94	59,68		
	2	7,33	12,40	12,08	7,71	60,48	59,79±0,96	
		7,55	12,45	13,40	7,49	59,11		

Contoh perhitungan

Kadar karbohidrat (% ,bk) = 100% - (% air + % lemak + % protein + % abu)

Replikasi 1 Tepung kacang merah (1):

Kadar karbohidrat (% ,bk) = 100% - (6,60% + 3,36% + 1,52% + 30,60%) = 57,92%

Lampiran D. Proksimat Cilok Substitusi Tepung Kacang Merah dan Tepung Kulit Pisang Dengan Perbedaan Rasio Tepung dan Konsentrasi Garam

Tabel D. 1 Data kadar air cilok substitusi tepung kacang merah dan tepung kulit pisang

Cilok	Replikasi	Berat sampel cawan akhir (g)	+ Berat cawan penguapan (g)	Berat sampel (g)	Kadar air (% ,bb)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Kontrol	1	26,9290	24,5801	5.2471	55.2343	54,63±0,86	
		29,7339	27,3228	5.2443	54.0244		
	2	27,6995	25,2185	5.3296	53.4487	53,82±0,52	54,22±0,57
		25,125	22,5506	5.6196	54.1889		
KM25%:KP75%, G2%	1	25,4481	23,2808	5.0814	57.3484	57,52±0,24	
		23,2593	21,1247	5.0444	57.6838		
	2	21,9946	19,7846	5.091	56.5901	56,71±0,18	57,12±0,56
		23,122	20,8303	5.3097	56.8394		
KM50%:KP50%, G2%	1	22,7708	20,4686	5.0512	54.4227	54,35±0,10	
		24,7323	22,4326	5.0299	54.2794		
	2	29,1588	26,7343	5.4721	55.6934	55,49±0,29	54,92±0,80
		28,4903	26,1646	5.201	55.2836		
KM75%:KP25%, G2	1	23,1174	20,8303	5.0299	54.5299	54,43±0,15	
		28,9085	26,5966	5.0611	54.3202		
	2	27,6813	25,4539	5.0090	55.5320	55,57±0,05	54,99±0,80
		25,178	22,9256	5.0735	55.6046		
KM25%:KP75%, G4%	1	28,5125	26,4739	4.5878	55.5648	55,87±0,44	
		28,3880	26,1489	5.1101	56.1829		
	2	22,257	19,8243	5.4596	55.4418	55,75±0,44	55,81±0,08
		22,9983	20,649	5.3466	56.0599		
KM50%:KP50%, G4%	1	27,8464	25,7069	4.8421	55.8146	55,59±0,31	
		29,6371	27,3699	5.0803	55.3727		
	2	26,4909	24,2675	5.2317	57.5014	57,26±0,35	56,42±1,17
		27,1926	24,9878	5.1285	57.0089		
KM75%:KP25%, G4%	1	24,7040	22,3138	5.2433	54.4142	54,46±0,07	
		27,5579	24,9878	5.6499	54.5107		
	2	24,0911	21,7789	5.1512	55.1134	55,00±0,16	54,73±0,37
		24,3552	21,9427	5.3474	54.8846		
KM25%:KP75%, G6%	1	28,1557	25,9672	5.0605	56.7533	55,94±1,15	
		24,9848	22,7390	5.0052	55.1307		
	2	26,9171	24,6951	5.0098	55.6469	55,84±0,27	55,89±0,07
		23,9951	21,6169	5.4094	56.0358		
KM50%:KP50%, G6%	1	26,3467	23,9457	5.2913	54.6236	55,75±1,60	
		24,6937	22,4044	5.3092	56.8805		
	2	24,7663	22,3138	5.3552	54.2034	54,68±0,67	55,21±0,76
		26,0908	23,7432	5.2342	55.1488		
KM75%:KP25%, G6%	1	30,7167	28,5379	5.0960	57.2449	57,06±0,26	
		26,1829	23,9532	5.1698	56.8707		
	2	22,236	20,0227	5.0985	56.5892	57,00±0,58	57,03±0,39
		29,5354	27,3699	5.0852	57.4156		

Tabel D. 2 Data kadar abu cilok substitusi

Cilok	Replikasi	Berat cawan + sampel (g)	Berat cawan kosong (g)	Berat sampel awal (g)	Berat sampel kering (g)	Kadar abu (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Kontrol	1	21,0706	20,9558	5,9525	2,7007	4,2508	4,12±0,19	3,95±0,24
		31,6624	31,5759	4,7811	2,1692	3,9876		
	2	21,0048	20,9122	5,1315	2,3698	3,9075	3,77±0,19	
		20,9476	20,8586	5,2939	2,4448	3,6404		
KM25%:KP75%, G2%	1	20,0907	19,946	5,3191	2,2598	6,4033	6,36±0,06	6,46±0,13
		19,3768	19,2407	5,0711	2,1544	6,3173		
	2	21,3589	21,2189	5,0348	2,1793	6,4240	6,56±0,19	
		22,2942	22,1494	5,0004	2,1644	6,6900		
KM50%:KP50%, G2%	1	22,3018	22,1494	5,1522	2,3519	6,4798	6,42±0,09	6,44±0,02
		23,7046	23,558	5,0509	2,3057	6,3582		
	2	19,7	19,539	5,3613	2,3864	6,7466	6,46±0,41	
		22,0222	21,8723	5,4574	2,4292	6,1708		
KM75%:KP25%, G2	1	30,9526	30,8078	5,204	2,3717	6,1053	6,01±0,13	6,08±0,10
		22,0254	21,8723	5,6793	2,5883	5,9150		
	2	23,6994	23,558	5,0857	2,2597	6,2576	6,16±0,14	
		21,839	21,6981	5,2323	2,3248	6,0607		
KM25%:KP75%, G4%	1	21,5935	21,403	5,1572	2,2757	8,3711	8,19±0,25	8,25±0,07
		21,3332	21,1197	6,037	2,6639	8,0146		
	2	30,995	30,8078	5,1543	2,2807	8,2079	8,30±0,14	
		22,3326	22,1267	5,5382	2,4506	8,4020		

Lanjutan

Cilok	Replikasi	Berat cawan + sampel (g)	Berat cawan kosong (g)	Berat sampel awal (g)	Berat sampel kering (g)	Kadar abu (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
KM50%:KP50%, G4%	1	21,8917	21,6981	6,0581	2,6902	7,1965	7,21±0,03	7,24±0,03
		22,2997	22,1267	5,3863	2,3919	7,2329		
	2	22,4121	22,2492	5,2577	2,2474	7,2484	7,26±0,02	
		21,5852	21,4175	5,3966	2,3068	7,2699		
KM75%:KP25%, G4%	1	29,5515	29,3333	6,7128	3,0568	7,1381	7,13±0,01	7,08±0,07
		21,3918	21,2189	5,3288	2,4266	7,1252		
	2	19,4077	19,2407	5,1828	2,3323	7,1603	7,02±0,20	
		24,0596	23,8998	5,1638	2,3238	6,8768		
KM25%:KP75%, G6%	1	21,1614	20,8586	5,3561	2,3598	12,8316	12,84±0,01	12,23±0,85
		21,2165	20,9122	5,3766	2,3688	12,8460		
	2	21,6687	21,403	5,2036	2,2978	11,5630	11,63±0,09	
		20,209	19,946	5,0932	2,2491	11,6936		
KM50%:KP50%, G6%	1	21,9996	21,7708	5,2004	2,3011	9,9432	10,77±0,1,17	11,22±0,63
		21,6789	21,4175	5,092	2,2531	11,6018		
	2	29,6124	29,3333	5,4429	2,4669	11,3136	11,66±0,50	
		22,063	21,7708	5,3659	2,4320	12,0146		
KM75%:KP25%, G6%	1	26,9868	26,7491	5,2601	2,2588	10,5233	10,28±0,34	10,12±0,23
		22,4729	22,2492	5,1907	2,2290	10,0359		
	2	21,1991	20,9558	5,3706	2,3092	10,5360	9,95±0,82	
		26,983	26,7491	5,8052	2,4961	9,3706		

Tabel D.3 Data kadar lemak cilok substitusi

Cilok	Replikasi	Berat labu+ sampel (g)	Berat labu kosong (g)	Berat sampel awal (g)	Berat sampel kering (g)	Kadar lemak (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Kontrol	1	108,0004	107,9708	5,0162	2,2759	1,3006	1,26±0,06	1,15±0,14
		111,6030	111,5753	5,0273	2,2809	1,2144		
	2	111,8241	111,7958	5,3296	53,8188	1,1498	1,05±0,14	
		111,5999	111,5753	5,6196	53,8188	0,9479		
KM25%:KP75%, G2%	1	108,0377	107,9708	5,2429	2,2274	3,0035	2,95±0,08	3,05±0,13
		119,9539	119,8870	5,4446	2,3131	2,8922		
	2	94,5274	94,4451	5,7962	56,7147	3,2803	3,15±0,19	
		129,1921	129,1185	5,6469	56,7147	3,0111		
KM50%:KP50%, G2%	1	124,1817	124,1229	5,2921	2,4158	2,4340	2,55±0,16	2,45±0,13
		94,5089	94,4451	5,2583	2,4004	2,6579		
	2	115,3212	115,269	5,4721	55,4885	2,1431	2,35±0,29	
		136,6821	136,6212	5,3541	55,4885	2,5554		
KM75%:KP25%, G2	1	136,7667	136,7297	5,1185	2,3328	1,5861	1,50±0,12	1,59±0,12
		111,6101	111,5753	5,406	2,4638	1,4125		
	2	111,6156	111,5753	5,5025	55,5683	1,6484	1,68±0,04	
		136,7713	136,7297	5,476	55,5683	1,7098		
KM25%:KP75%, G4%	1	110,8644	110,7929	5,0036	2,2079	3,2384	3,00±0,33	3,12±0,16
		118,9171	118,8556	5,0403	2,2241	2,7652		
	2	104,0219	103,9436	5,2136	55,7509	3,3941	3,23±0,23	
		124,1933	124,1229	5,1799	55,7509	3,0715		
KM50%:KP50%, G4%	1	104,0043	103,9436	5,0724	2,2525	2,6948	2,68±0,02	2,56±0,16
		111,8551	111,7958	5,0186	2,2286	2,6609		
	2	108,0265	107,9708	5,3659	57,2551	2,4284	2,45±0,03	
		111,8517	111,7958	5,2881	57,2551	2,4730		

lanjutan

Cilok	Replikasi	Berat labu+ sampel (g)	Berat labu kosong (g)	Berat sampel awal (g)	Berat sampel kering (g)	Kadar lemak (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
KM75%:KP25%, G4%	1	119,9222	119,8870	5,0281	2,2897	1,5373	1,52±0,02	1,67±0,20
		129,3852	129,3506	5,0421	2,2960	1,5069		
	2	119,9333	119,887	5,5594	54,9990	1,8507	1,81±0,06	
		112,0433	111,9984	5,6439	54,9990	1,7678		
KM25%:KP75%, G6%	1	104,0119	103,9436	5,5076	2,4265	2,8147	2,75±0,09	2,91±0,22
		111,8579	111,7958	5,2507	2,3134	2,6844		
	2	110,8647	110,7929	5,407	55,8414	3,0071	3,07±0,12	
		118,9255	118,8556	5,0589	55,8414	3,1290		
KM50%:KP50%, G6%	1	118,9069	118,8556	5,267	2,3305	2,2012	2,12±0,14	2,36±0,33
		110,8399	110,7929	5,2253	2,3121	2,0328		
	2	129,4154	129,3506	5,307	54,6761	2,6940	2,59±0,11	
		137,2427	137,1817	5,3993	54,6761	2,4927		
KM75%:KP25%, G6%	1	115,2985	115,2669	5,0299	2,1600	1,4630	1,54±0,11	1,64±0,04
		129,3860	129,3506	5,1036	2,1916	1,6153		
	2	124,1615	124,1229	5,0985	57,0024	1,7608	1,74±0,32	
		137,2191	137,1817	5,0852	57,0024	1,7105		

Tabel D.4 Data kadar protein cilok substitusi

Cilok	Replikasi	Volume sampel (mL)	Volume blanko (mL)	Correct acid (mL)	Berat sampel awal (g)	Berat sampel kering (g)	% Nitrogen	Kadar protein (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Kontrol	1	3,36	0,05	3,31	2,0164	0,9149	1,0131	6,3316	6,24±0,12	6,21±0,05
		3,26	0,05	3,21	2,0113	0,9125	0,9849	6,1559		
	2	3,58	0,05	3,53	2,1799	1,0067	0,9818	6,1364		
		3,52	0,05	3,47	2,1205	0,9793	0,9922	6,2010		
KM25%:KP75%, G2%	1	4,06	0,05	4,01	2,022	0,8590	1,3071	8,1691	8,45±0,40	8,91±0,64
		4,33	0,05	4,28	2,0192	0,8578	1,3970	8,7313		
	2	4,87	0,05	4,82	2,0552	0,8896	1,5171	9,4818		
		5,01	0,05	4,96	2,1705	0,9395	1,4782	9,2389		
KM50%:KP50%, G2%	1	5,7	0,05	5,65	2,0392	0,9309	1,6995	10,6217	10,71±0,13	11,09±0,53
		5,82	0,05	5,77	2,0481	0,9349	1,7280	10,8002		
	2	6,43	0,05	6,38	2,1347	0,9502	1,8801	11,7503		
		6,28	0,05	6,23	2,1899	0,9748	1,7896	11,1848		
KM75%:KP25%, G2	1	7,46	0,05	7,41	2,0569	0,9374	2,2133	13,8330	14,13±0,41	13,88±0,35
		7,76	0,05	7,71	2,0532	0,9357	2,3070	14,4190		
	2	7,66	0,05	7,61	2,1795	0,9684	2,2004	13,7522		
		6,92	0,05	6,87	2,0033	0,8901	2,1611	13,5069		
KM25%:KP75%, G4%	1	4,84	0,05	4,79	2,0012	0,8831	1,5188	9,4926	9,57±0,10	9,43±0,19
		4,94	0,05	4,89	2,0122	0,8879	1,5421	9,6378		
	2	5,21	0,05	5,16	2,1817	0,9654	1,4966	9,3538		
		5,23	0,05	5,18	2,2174	0,9812	1,4782	9,2389		

Cilok	Replikasi	Volume sampel (mL)	Volume blanko (mL)	Correct acid (mL)	Berat sampel awal (g)	Berat sampel kering (g)	% Nitrogen	Kadar protein (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
KM50%:KP50%, G4%	1	5,57	0,05	5,52	2,0377	0,9049	1,7081	10,6756	10,65±0,04	10,87±0,31
		5,52	0,05	5,47	2,0299	0,9014	1,6991	10,6195		
	2	5,62	0,05	5,57	2,0773	0,8879	1,7564	10,9777		
		5,75	0,05	5,7	2,0825	0,8902	1,7929	11,2058		
KM75%:KP25%, G4%	1	7,15	0,05	7,1	2,0109	0,9157	2,1710	13,5686	13,72±0,22	13,75±0,03
		7,38	0,05	7,33	2,0299	0,9244	2,2203	13,8771		
	2	7,57	0,05	7,52	2,119	0,9536	2,2081	13,8008		
		7,26	0,05	7,21	2,0415	0,9187	2,1975	13,7341		
KM25%:KP75%, G6%	1	4,34	0,05	4,29	2,0457	0,9013	1,3327	8,3297	8,41±0,11	8,88±0,66
		4,42	0,05	4,37	2,0443	0,9007	1,3585	8,4908		
	2	5,13	0,05	5,08	2,1207	0,9365	1,5189	9,4931		
		5,39	0,05	5,34	2,2961	1,0139	1,4747	9,2166		
KM50%:KP50%, G6%	1	5,54	0,05	5,49	2,0457	0,9052	1,6982	10,6139	10,53±0,12	10,61±0,11
		5,45	0,05	5,4	2,0443	0,9046	1,6715	10,4471		
	2	6,04	0,05	5,99	2,1471	0,9731	1,7235	10,7717		
		5,58	0,05	5,53	2,0123	0,9121	1,6977	10,6107		
KM75%:KP25%, G6%	1	6,92	0,05	6,87	2,0822	0,8941	2,1513	13,4458	13,47±0,04	13,56±0,12
		6,96	0,05	6,91	2,0858	0,8957	2,1601	13,5008		
	2	6,89	0,05	6,84	2,0538	0,8831	2,1688	13,5548		
		7,4	0,05	7,35	2,1782	0,9366	2,1974	13,7336		

Tabel D.5 Data kadar karbohidrat cilok substitusi

Cilok	Replikasi	Kadar air (% ,bb)	Kadar lemak (% ,bb)	Kadar protein (% ,bb)	Kadar abu (% ,bb)	Kadar karbohidrat (% ,bk)	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Kontrol	1	55,23	4,25	6,33	1,30	32,89	33,75±1,23	34,47±1,01
		54,02	3,99	6,16	1,21	34,62		
	2	53,45	3,91	6,14	1,15	35,36	35,19±0,24	
		54,19	3,64	6,20	0,95	35,02		
KM25%:KP75%, G2%	1	57,35	6,40	8,17	3,00	25,08	24,73±0,50	24,47±0,35
		57,68	6,32	8,73	2,89	24,38		
	2	56,59	6,42	9,48	3,28	24,22	24,22±0,01	
		56,84	6,69	9,24	3,01	24,22		
KM50%:KP50%, G2%	1	54,42	6,48	10,62	2,43	26,04	25,97±0,10	25,10±1,22
		54,28	6,36	10,80	2,66	25,90		
	2	55,69	6,75	11,75	2,14	23,67	24,24±0,81	
		55,28	6,17	11,18	2,56	24,81		
KM75%:KP25%, G2	1	54,53	6,11	13,83	1,59	23,95	23,94±0,01	23,45±0,68
		54,32	5,91	14,42	1,41	23,93		
	2	55,53	6,26	13,75	1,65	22,81	22,96±0,22	
		55,60	6,06	13,51	1,71	23,12		
KM25%:KP75%, G4%	1	55,56	8,37	9,49	3,24	23,33	23,37±0,05	23,39±0,03
		56,18	8,01	9,64	2,77	23,40		
	2	55,44	8,21	9,35	3,39	23,60	23,42±0,26	
		56,06	8,40	9,24	3,07	23,23		
KM50%:KP50%, G4%	1	55,81	7,20	10,68	2,69	23,62	23,87±0,35	22,90±1,35
		55,37	7,23	10,62	2,66	24,11		
	2	57,50	7,25	10,98	2,43	21,84	21,94±0,14	
		57,01	7,27	11,21	2,47	22,04		
KM75%:KP25%, G4%	1	54,41	7,14	13,57	1,54	23,34	23,16±0,26	22,78±0,53
		54,51	7,13	13,88	1,51	22,98		
	2	55,11	7,16	13,80	1,85	22,07	22,41±0,47	
		54,88	6,88	13,73	1,77	22,74		
KM25%:KP75%, G6%	1	56,75	12,83	8,33	2,81	19,27	20,06±1,12	20,08±0,03
		55,13	12,85	8,49	2,68	20,85		
	2	55,65	11,56	9,49	3,01	20,29	20,11±0,26	
		56,04	11,69	9,22	3,13	19,92		
KM50%:KP50%, G6%	1	54,62	9,94	10,61	2,20	22,62	20,83±2,53	20,60±0,32
		56,88	11,60	10,45	2,03	19,04		
	2	54,20	11,31	10,77	2,69	21,02	20,38±0,91	
		55,15	12,01	10,61	2,49	19,73		
KM75%:KP25%, G6%	1	57,24	10,52	13,45	1,46	17,32	17,65±0,46	17,66±0,01
		56,87	10,04	13,50	1,62	17,98		
	2	56,59	10,54	13,55	1,76	17,56	17,66±0,15	
		57,42	9,37	13,73	1,71	17,77		

Contoh perhitungan

$$\text{Kadar karbohidrat (\%,bb)} = 100\% - (\% \text{ air} + \% \text{ lemak} + \% \text{ protein} + \% \text{ abu})$$

Perlakuan cilok kontrol replikasi 1 (1):

$$\text{Kadar karbohidrat (\%,bb)} = 100\% - (55,23\% + 4,25\% + 6,33\% + 1,30\%) = 32,89\%$$

D.2 Analisis statistik proksimat cilok

Tests of Between-Subjects Effects

Dependent Variable: Kadar Air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	13,096 ^a	8	1,637	3,941	,028
Intercept	56031,054	1	56031,054	134882,012	,000
Konsentrasi_Garam	,575	2	,288	,692	,525
Rasio_Tepung	2,090	2	1,045	2,515	,136
Konsentrasi_Garam* Rasio_Tepung	10,431	4	2,608	6,278	,011
Error	3,739	9	,415		
Total	56047,889	18			
Corrected Total	16,835	17			

a. R Squared = ,778 (Adjusted R Squared = ,581)

Kadar Air

Duncan

Sampel	N	Subset		
		1	2	3
KM75:KP25*G4%	2	54,7307231400		
KM50:KP50*G2%	2	54,9197866300	54,9197866300	
KM75,KP25*G2%	2	54,9966931800	54,9966931800	
KM50:KP50*G6%	2	55,2140891800	55,2140891800	
KM25:KP75*G4%	2	55,8123322050	55,8123322050	55,8123322050
KM25:KP75*G6%	2	55,8916677300	55,8916677300	55,8916677300
KM50:KP50*G4%	2		56,4243994700	56,4243994700
KM75:KP25*G6%	2			57,0301000950
KM25:KP75*G2%	2			57,1153917600
Sig.		,133	,062	,095

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,415,

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

b, Alpha =,05,

Tests of Between-Subjects Effects

Dependent Variable: Kadar abu

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	83,331 ^a	8	10,416	76,323	,000
Intercept	1253,716	1	1253,716	9186,211	,000
Rasio_tepung	4,498	2	2,249	16,478	,001
Konsentrasi_Garam	77,051	2	38,525	282,283	,000
Rasio_tepung * Konsentrasi_Garam	1,783	4	,446	3,266	,065
Error	1,228	9	,136		
Total	1338,276	18			
Corrected Total	84,560	17			

a, R Squared =,985 (Adjusted R Squared =,973)

Kadar abu

Duncan

Rasio_tepung	N	Subset		
		1	2	3
75:25	6	7,758722971500		
50:50	6		8,298030431667	
25:75	6			8,980377286667
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,136,

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

b, Alpha =,05,

Kadar abu

Duncan

Konsentrasi_Garam	N	Subset		
		1	2	3
2	6	6,327381817833		
4	6		7,520301922167	
6	6			11,189446949833
Sig,		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,136,

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

b, Alpha =,05,

Tests of Between-Subjects Effects

Dependent Variable: Kadar lemak

Source	Type III Sum of Squares	df	Mean Square	F	Sig,
Corrected Model	5,986 ^a	8	,748	20,271	,000
Intercept	101,125	1	101,125	2739,319	,000
Rasio_tepung	5,892	2	2,946	79,797	,000
Konsentrasi_Garam	,067	2	,034	,908	,437
Rasio_tepung * Konsentrasi_Garam	,028	4	,007	,189	,938
Error	,332	9	,037		
Total	107,444	18			
Corrected Total	6,319	17			

a, R Squared =,947 (Adjusted R Squared =,901)

Kadar lemak

Duncan

Rasio_tepung	N	Subset		
		1	2	3
75:25	6	1,630750348500		
50:50	6		2,455691825167	
25:75	6			3,024293694000
Sig,		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,038,

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

b, Alpha =,05,

Kadar lemak

Duncan

Konsentrasi_Garam	N	Subset
		1
6	6	2,300453155500
2	6	2,361194410167
4	6	2,449088302000
Sig,		,232

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,037,

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

b, Alpha =,05,

Tests of Between-Subjects Effects

Dependent Variable: Kadar Protein

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	66,887 ^a	8	8,361	52,509	,000
Intercept	2265,546	1	2265,546	14228,185	,000
Rasio_tepung	66,170	2	33,085	207,783	,000
Konsentrasi_garam	,375	2	,188	1,179	,351
Rasio_tepung * Konsentrasi_garam	,341	4	,085	,536	,713
Error	1,433	9	,159		
Total	2333,866	18			
Corrected Total	68,321	17			

a. R Squared = ,979 (Adjusted R Squared = ,960)

Kadar Protein

Duncan

Rasio_tepung	N	Subset		
		1	2	3
25:75	6	9,072871486500		
50:50	6		10,856593910000	
75:25	6			13,727227261667
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) = ,159,

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

b, Alpha = ,05,

Kadar Protein

Duncan

Konsentrasi_garam	N	Subset
		1
6	6	11,017380654667
2	6	11,290781783500
4	6	11,348530220000
Sig,		,202

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,159,

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

b, Alpha =,05,

Tests of Between-Subjects Effects

Dependent Variable: Kadar Karbohidrat

Source	Type III Sum of Squares	df	Mean Square	F	Sig,
Corrected Model	90,103 ^a	8	11,263	23,302	,000
Intercept	8929,035	1	8929,035	18473,042	,000
Rasio_tepung	8,700	2	4,350	9,000	,007
Konsentrasi_garam	77,025	2	38,513	79,678	,000
Rasio_tepung *	4,378	4	1,094	2,264	,142
Konsentrasi_garam					
Error	4,350	9	,483		
Total	9023,489	18			
Corrected Total	94,454	17			

a, R Squared =,954 (Adjusted R Squared =,913)

Kadar Karbohidrat

Duncan

Rasio_tepung	N	Subset	
		1	2
75:25	6	21,297460613333	
25:75	6		22,649326968333
50:50	6		22,870258741667
Sig,		1,000	,618

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,544,

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

b, Alpha =,05,

Kadar Karbohidrat

Duncan

Konsentrasi_garam	N	Subset		
		1	2	3
6	6	19,447433573333		
4	6		23,026261285000	
2	6			24,343351465000
Sig,		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,483,

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

b, Alpha =,05,

Lampiran E. Warna Tepung Kacang Merah dan Tepung Kulit Pisang

E1. Data warna tepung kacang merah dan tepung kulit pisang

Tabel E. 1 Data warna tepung kacang merah dan tepung kulit pisang

Keterangan	Replikasi	Lightness	Rata-rata Duplo	Rata-rata akhir	a*	b*	$^{\circ}Hue$	Rata-rata \pm SD (duplikasi)	Rata-rata \pm SD (replikasi)
Tepung Kacang Merah	1	72,57	72,56 \pm 0,01	72,41 \pm 0,21	4,27	7,34	59,81	59,61 \pm 0,29	59,50 \pm 0,34
		72,55			4,27	7,22	59,40		
	2	72,24	72,25 \pm 0,01		4,29	7,16	59,07	59,40 \pm 0,46	
		72,26			4,32	7,4	59,72		
Tepung Kulit Pisang	1	34,42	34,56 \pm 0,19	36,00 \pm 2,03	9,28	6,7	35,83	36,49 \pm 0,93	36,41 \pm 0,90
		34,7			9,32	7,06	37,14		
	2	37,62	37,44 \pm 0,25		9,28	6,61	35,46	36,33 \pm 1,23	
		37,26			9,34	7,09	37,20		

Contoh perhitungan

Replikasi 1 Tepung kacang merah (1):

$$^{\circ}Hue = \tan^{-1} (b/a) = \tan^{-1} (7,34/4,27) = 59,81$$

Lampiran F. Warna Cilok Substitusi Tepung Kacang Merah dan Tepung Kulit Pisang

F.1 Data warna cilok substitusi

Tabel F.1 Data warna cilok substitusi

Cilok	Replikasi	Lightness	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)	a*	b*	°Hue	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Kontrol	1	70,59	71,65±1,50	71,64±0,02	-1,47	12,49	-83,29	83,61±0,46	83,56±0,33
		72,72			-1,38	12,98	-83,93		
	2	70,32	71,62±1,83		-1,42	12,95	-83,74		
		72,92			-1,46	12,38	-83,27		
KM25%:KP75%, G2%	1	32,37	32,39±0,02	32,01±0,54	5,75	9,32	58,33	58,35±0,04	58,07±1,39
		32,41			5,88	9,55	58,38		
	2	32,18	31,62±0,79		5,05	8,55	59,43		
		31,06			5,76	8,58	56,13		
KM50%:KP50%, G2%	1	28,44	29,12±0,95	28,76±0,50	6,61	8,5	52,13	53,77±2,31	53,81±1,35
		29,79			6,07	8,8	55,40		
	2	27,86	28,40±0,76		6,43	8,88	54,09		
		28,94			6,51	8,84	53,63		
KM75%:KP25%, G2	1	41,55	41,05±0,71	41,38±0,47	7,73	14,85	62,50	63,63±1,59	63,60±1,39
		40,54			6,95	14,74	64,76		
	2	41,04	41,72±0,95		7,73	14,73	62,31		
		42,39			6,87	14,63	64,85		
KM25%:KP75%, G4%	1	28,78	28,86±1,10	28,69±0,22	6,64	11,13	59,18	60,45±1,79	59,10±1,92
		28,93			6,2	11,52	61,71		
	2	28,32	28,53±0,29		6,44	10	57,22		
		28,74			6,51	10,53	58,27		
Cilok	Replikasi	Lightness	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)	a*	b*	°Hue	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)

KM50%:KP50%, G4%	1	30,13	30,33±0,27	29,79±0,75	6,73	10,3	56,84	56,79±0,07	55,60±1,38
		30,52			6,8	10,37	56,75		
	2	28,72	29,26±0,76		6,85	9,54	54,32	54,41±0,12	
		29,8			6,67	9,35	54,50		
KM75%:KP25%, G4%	1	34,06	32,64±2,01	33,09±0,63	4,35	9,85	66,17	64,57±2,26	64,24±1,42
		31,21			5,07	9,94	62,98		
	2	33,24	33,54±0,42		5,01	10,01	63,41	63,91±0,71	
		33,84			4,52	9,44	64,41		
KM25%:KP75%, G6%	1	22,82	23,20±0,53	23,36±0,22	6,65	6,58	44,70	44,93±0,33	44,70±0,42
		23,57			6,7	6,74	45,17		
	2	22,45	23,52±1,50		6,81	6,61	44,15	44,46±0,44	
		24,58			6,33	6,28	44,77		
KM50%:KP50%, G6%	1	25,28	25,29±0,01	25,24±0,06	6,47	6,54	45,31	47,20±2,67	46,90±1,70
		25,29			6,7	7,73	49,08		
	2	24,87	25,20±0,46		6,06	6,24	45,84	46,61±0,09	
		25,53			6,9	7,5	47,39		
KM75%:KP25%, G6%	1	33,57	35,64±2,92	35,87±0,34	7,09	11,48	58,30	59,34±1,47	58,45±1,39
		37,7			6,73	11,84	60,39		
	2	34,66	36,12±2,06		6,9	10,66	57,09	57,55±0,65	
		37,58			7,14	11,43	58,01		

Contoh perhitungan

Perlakuan cilok kontrol replikasi 1 (1):

$$^{\circ}Hue = \tan^{-1}(b/a) = \tan^{-1}(12,49/1,47) = 83,29$$

F.2 Analisis statistik *lightness* (L*) cilok substitusi

Tests of Between-Subjects Effects

Dependent Variable: lightness

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	480,471 ^a	8	60,059	273,219	,000
Intercept	17197,706	1	17197,706	78235,599	,000
Rasio_tepung	310,311	2	155,155	705,831	,000
konsentrasi_garam	105,387	2	52,693	239,712	,000
Rasio_tepung * konsentrasi_garam	64,773	4	16,193	73,667	,000
Error	1,978	9	,220		
Total	17680,155	18			
Corrected Total	482,449	17			

a, R Squared =,996 (Adjusted R Squared =,992)

lightness

Duncan

Sampel	N	Subset						
		1	2	3	4	5	6	7
KM25:KP75*G6%	2	23,35500						
KM50:KP50*G6%	2		25,24250					
KM25:KP75*G4%	2			28,69250				
KM50:KP50*G2%	2			28,75750				
KM50:KP50*G4%	2			29,79250				
KM25:KP75*G2%	2				32,00500			
KM75:KP25*G4%	2					33,08750		
KM75:KP25*G6%	2						35,87750	
KM75, KP25*G2%	2							41,38000
Sig,		1,000	1,000	,051	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,220,

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

b, Alpha =,05,

F.3 Analisis statistik °Hue cilok substitusi

Tests of Between-Subjects Effects

Dependent Variable: °hue

Source	Type III Sum of Squares	df	Mean Square	F	Sig,
Corrected Model	722,044 ^a	8	90,256	92,631	,000
Intercept	56553,148	1	56553,148	58041,593	,000
Konsentrasi_garam	331,988	2	165,994	170,363	,000
Rasio_tepung	339,135	2	169,567	174,030	,000
Konsentrasi_garam * Rasio_tepung	50,921	4	12,730	13,065	,001
Error	8,769	9	,974		
Total	57283,961	18			
Corrected Total	730,814	17			

a, R Squared =,988 (Adjusted R Squared =,977)

°hue

Duncan

Sampel	N	Subset			
		1	2	3	4
KM25:KP75*G6%	2	44,696592			
KM50:KP50*G6%	2	46,903857			
KM50:KP50*G2%	2		53,813924		
KM50:KP50*G4%	2		55,600693		
KM25:KP75*G2%	2			58,065988	
KM75:KP25*G6%	2			58,445062	
KM25:KP75*G4%	2			59,096030	
KM75,KP25*G2%	2				63,603399
KM75:KP25*G4%	2				64,243645
Sig,		,052	,104	,344	,533

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,974,

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

b, Alpha =,05,

F.4 Analisis statistik C* cilok substitusi

Tests of Between-Subjects Effects

Dependent Variable: C*

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	77,755 ^a	9	8,639	53,352	,000
Intercept	1851,169	1	1851,169	11431,636	,000
Rasio_tepung	28,213	2	14,106	87,112	,000
Konsentrasi_garam	11,140	3	3,713	22,931	,000
Rasio_tepung * Konsentrasi_garam	36,651	4	9,163	56,583	,000
Error	1,295	8	,162		
Total	2556,831	18			
Corrected Total	79,051	17			

a. R Squared = ,984 (Adjusted R Squared = ,965)

C*

Duncan

Sampel	N	Subset				
		1	2	3	4	5
KM25:KP75*G6%	2	9,31645606200				
KM50:KP50*G6%	2	9,57965523300				
KM25:KP75*G2%	2		10,60754404000			
KM50:KP50*G2%	2		10,85000420500			
KM75:KP25*G4%	2		10,89654946000			
KM50:KP50*G4%	2			11,98356525000		
KM25:KP75*G4%	2			12,57919137500	12,57919137500	
KM75:KP25*G6%	2				13,32175499000	
KM75, KP25*G2%	2					16,45888886000
Sig,		,511	,491	,156	,086	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,148,

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

b, Alpha =,05,

Lampiran G. Tekstur Cilok Substitusi

G.1 Data tekstur cilok substitusi

Tabel G.1 Data tekstur cilok substitusi

Cilok	Pengulangan	Chewiness	Rata-rata±SD (duplikasi)	Rata-rata±SD (replikasi)
Kontrol	1	149,477 149,337	149,41±0,10	153,97±6,4
	2	155,611 161,435	158,52±4,12	
KM25%:KP75%, G2%	1	209,359 207,096	208,23±1,60	215,91±10,85
	2	222,649 224,521	223,59±1,32	
KM50%:KP50%, G2%	1	233,844 229,492	231,67±3,08	221,25±14,73
	2	211,797 209,85	210,82±1,38	
KM75%:KP25%, G2	1	394,198 390,405	392,30±2,68	397,73±7,66
	2	404,975 401,322	403,15±2,58	
KM25%:KP75%, G4%	1	180,571 180,262	180,42±0,22	170,99±13,33
	2	156,617 166,507	161,56±6,99	
KM50%:KP50%, G4%	1	330,806 330,313	330,56±0,35	324,50±8,57
	2	333,502 303,365	318,43±21,31	
KM75%:KP25%, G4%	1	464,84 469,208	467,02±3,09	457,78±13,06
	2	446,886 450,202	448,54±2,34	
KM25%:KP75%, G6%	1	188,459 155,243	171,85±23,49	186,52±20,73
	2	197,844 204,518	201,18±4,72	
KM50%:KP50%, G6%	1	180,63 204,097	192,36±16,59	190,88±2,10
	2	189,104 189,68	189,39±0,41	
KM75%:KP25%, G6%	1	437,316 459,402	448,36±15,62	451,36±4,24
	2	469,423 439,291	454,36±21,31	

G.2 Analisis statistik tekstur cilok substitusi

Tests of Between-Subjects Effects

Dependent Variable: chewiness

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	223784,039 ^a	8	27973,005	198,460	,000
Intercept	1521812,835	1	1521812,835	10796,825	,000
Rasio_tepung	197727,917	2	98863,958	701,411	,000
konsentrasi_garam	6568,688	2	3284,344	23,301	,000
Rasio_tepung * konsentrasi_garam	19487,434	4	4871,859	34,564	,000
Error	1268,550	9	140,950		
Total	1746865,424	18			
Corrected Total	225052,589	17			

a, R Squared =,994 (Adjusted R Squared =,989)

chewiness

Duncan

sampel	N	Subset					
		1	2	3	4	5	6
KM25:KP75*G4%	2	170,98925					
KM25:KP75*G6%	2	186,51600					
KM50:KP50*G6%	2	190,87775	190,87775				
KM25:KP75*G2%	2		215,90625	215,90625			
KM50:KP50*G2%	2			221,24575			
KM50:KP50*G4%	2				324,4965		
KM75:KP25*G2%	2					397,725	
KM75:KP25*G6%	2						451,358
KM75:KP25*G4%	2						457,784
Sig.		,143	,064	,664	1,000	1,000	,601

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) = 140,950,

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

b, Alpha =,05,

Lampiran H, Kuesioner Uji Skoring

H1. Kuesioner uji skoring

UJI SKORING

Nama:
Jurusan/Angkatan: Teknologi Pangan/

Tanggal:
Sampel : Cilok

Petunjuk:

Cicipi dan nilai sampel dari **KIRI ke KANAN** dan tentukan intensitasnya berdasarkan parameter yang telah diberikan (warna, aroma, rasa dan kekenyalan) dari skala 1-6, Bilas mulut sebelum mencicipi sampel dengan menggunakan air yang telah disediakan. **Pengulangan dan perbandingan antar sampel TIDAK diperbolehkan.**

Parameter	Kode Sampel							
Warna								
Aroma								
Rasa								
Tekstur								

Warna

1 = Sangat Tidak Coklat

2 = Tidak Coklat

3 = Agak Tidak Coklat

4 = Agak Coklat

5 = Coklat

6 = Sangat Coklat

Rasa

1 = Rasa asing sangat terdeteksi

2 = Rasa asing terdeteksi

3 = Rasa asing agak terdeteksi

4 = Rasa asing agak tidak terdeteksi

5 = Rasa asing tidak terdeteksi

6 = Rasa asing sangat tidak terdeteksi

Aroma

1 = Aroma asing sangat terdeteksi

2 = Aroma asing terdeteksi

3 = Aroma asing agak terdeteksi

4 = Aroma asing agak tidak terdeteksi

5 = Aroma asing tidak terdeteksi

6 = Aroma asing sangat tidak terdeteksi

Tekstur

1 = Sangat tidak kenyal

2 = Tidak kenyal

3 = Agak tidak kenyal

4 = Agak kenyal

5 = Kenyal

6 = Sangat kenyal

Lampiran I. Nilai Skoring

I.1 Data nilai skoring cilok substitusi

Cilok substitusi tepung kacang merah dan tepung kulit pisang																									
Panelis		Formulasi 1 (TM25%:TK75% ; G2%)								Formulasi 2 (TM50%:TK50% ; G2%)								Formulasi 3 (TM75%:TK25% ; G2%)							
		Warna		Aroma		Rasa		Tekstur		Warna		Aroma		Rasa		Tekstur		Warna		Aroma		Rasa		Tekstur	
		I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
1		1	1	4	5	4	4	5	5	2	2	4	5	3	4	5	6	3	3	5	4	4	3	5	4
2		3	2	5	4	4	4	4	5	1	2	4	4	5	4	5	4	3	3	5	4	3	4	4	3
3		2	2	6	5	4	4	4	5	2	2	5	6	4	3	4	4	2	3	6	6	3	4	3	3
4		2	2	5	5	4	4	4	5	2	2	5	6	4	4	4	4	2	2	5	5	3	3	3	3
5		5	5	5	5	3	3	6	5	4	4	5	5	4	4	5	5	5	5	4	4	5	5	4	4
6		5	5	5	5	3	3	5	4	4	4	5	5	3	3	4	5	5	5	4	4	6	6	5	5
7		2	1	5	5	3	3	6	6	2	2	6	4	4	3	6	6	2	1	3	3	4	4	4	5
8		3	3	5	4	4	4	5	5	2	3	5	4	4	5	5	6	2	3	5	4	5	6	4	3
9		1	1	5	4	4	4	5	5	2	3	5	4	4	4	6	5	3	2	6	5	5	6	3	4
10		1	1	4	4	5	3	4	5	2	2	5	4	4	3	4	4	5	5	4	4	4	4	3	4
11		1	1	5	4	5	5	5	6	2	2	5	5	5	5	5	6	4	4	6	5	4	4	3	3
12		1	1	5	5	3	3	4	4	1	2	6	5	4	4	4	4	3	3	6	5	3	3	4	4
13		2	1	4	4	4	4	5	4	2	1	5	4	4	3	4	5	3	4	3	3	4	4	3	4
14		1	1	6	5	4	3	4	5	2	3	5	6	4	3	5	4	2	3	3	3	4	4	3	4
15		2	2	5	5	5	3	5	4	2	2	5	3	5	3	5	4	3	3	5	3	5	4	4	4
16		1	1	5	5	4	4	4	5	1	1	5	5	4	4	6	4	2	2	5	5	5	4	4	4
17		1	1	5	5	4	3	4	5	2	3	5	3	4	3	6	5	4	4	3	3	4	4	4	4
18		1	1	4	4	5	3	6	5	1	2	4	4	3	3	5	4	2	2	4	4	4	4	4	3
19		1	1	5	5	4	4	5	6	2	1	5	5	3	3	4	6	4	4	5	5	3	3	3	3
20		2	2	5	5	5	5	6	5	2	2	5	5	4	4	5	5	4	5	5	5	4	4	5	5
21		1	1	5	5	5	5	5	6	2	2	5	5	5	5	4	4	3	3	4	4	5	4	3	5
22		1	1	4	4	6	5	6	4	2	2	6	6	5	6	5	5	4	4	3	4	4	4	5	6
23		2	2	5	6	3	4	5	4	2	1	5	5	4	3	4	5	3	3	6	5	3	3	5	5
24		1	1	6	6	5	5	5	6	3	3	4	4	3	4	4	4	3	3	4	4	5	5	4	5
25		2	2	5	4	4	3	5	6	2	2	5	5	4	4	5	4	3	3	3	2	4	3	4	5
26		1	1	5	4	4	4	5	4	2	1	5	6	4	4	4	4	3	3	6	6	3	4	3	3
27		3	3	4	4	4	5	4	6	3	3	4	4	4	5	4	4	3	3	3	3	5	4	4	5
28		1	1	5	5	3	3	6	4	1	1	5	5	4	4	5	5	2	2	4	4	4	4	3	3
29		1	1	6	5	3	3	5	4	2	2	4	4	4	4	4	4	3	3	5	5	4	5	4	4
30		2	2	6	5	5	4	4	6	2	2	4	4	4	4	4	4	3	3	4	4	3	4	5	5
31		2	2	5	5	4	4	6	5	2	2	5	5	5	5	5	5	3	3	5	5	3	4	5	5
32		1	1	4	4	5	5	4	6	2	3	4	5	4	4	5	4	2	2	2	2	4	4	5	5
33		1	1	5	5	5	5	4	4	2	1	4	4	4	4	5	5	2	2	4	4	5	4	4	4
34		2	2	5	5	5	5	5	5	2	2	5	5	5	5	5	5	3	3	5	5	5	5	5	5
35		2	2	5	5	5	5	5	5	2	2	5	5	5	5	5	5	3	3	5	5	5	5	5	5

Cilok substitusi tepung kacang merah dan tepung kulit pisang																									
Panelis	Formulasi 4 (TM25%:TK75% ; G4%)				Formulasi 5 (TM50%:TK50% ; G4%)				Formulasi 6 (TM75%:TK25% ; G4%)																
	Warna		Aroma		Rasa		Tekstur		Warna		Aroma		Rasa		Tekstur										
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II									
1	2	2	4	5	4	5	6	6	2	2	5	5	4	4	6	5	4	4	3	4	4	4	4	3	
2	2	1	4	5	5	4	5	5	3	2	4	5	5	4	5	5	4	4	6	5	4	6	3	4	
3	2	2	4	5	5	4	5	6	2	3	5	4	4	5	4	5	3	4	4	3	5	4	4	4	
4	2	2	5	5	4	5	5	5	2	2	5	4	5	4	4	4	4	4	5	5	4	4	4	4	
5	6	6	4	5	5	4	5	5	5	5	4	5	5	4	5	5	5	5	5	5	5	5	5	4	4
6	6	6	5	5	4	4	5	5	5	5	4	4	5	5	5	5	6	6	5	5	6	4	3	4	
7	2	1	3	4	5	5	6	6	3	2	4	5	5	4	4	5	3	2	5	4	5	5	4	3	
8	2	3	5	4	5	4	5	6	2	3	4	5	4	5	4	3	2	3	5	4	5	4	3	4	
9	1	1	5	5	5	5	5	6	2	3	4	5	5	4	5	4	3	3	4	4	4	4	4	4	
10	1	1	4	4	4	4	6	6	1	1	3	3	4	5	5	5	2	2	3	3	6	5	3	4	
11	1	1	4	4	4	4	5	5	2	2	4	4	5	5	4	5	4	4	4	4	4	5	4	4	
12	1	1	4	5	5	5	5	6	2	1	3	4	4	5	4	4	2	2	3	3	5	4	3	4	
13	1	1	4	5	4	4	6	6	1	1	4	3	5	4	4	5	3	3	3	3	4	5	3	4	
14	2	1	4	5	6	5	6	6	3	3	4	4	4	5	4	5	3	4	2	2	4	5	4	4	
15	2	2	5	6	5	5	5	6	1	1	5	4	5	5	5	5	3	3	5	2	5	5	5	5	
16	1	1	5	5	5	5	6	5	2	2	5	5	6	5	5	5	2	1	5	5	4	6	4	4	
17	1	1	5	6	5	5	5	6	2	3	5	4	5	5	6	5	4	4	5	2	5	5	4	3	
18	1	1	4	4	5	6	5	5	2	3	4	4	4	4	4	4	2	2	4	4	4	4	4	4	
19	1	1	5	5	4	4	5	5	3	1	5	5	4	4	3	4	3	2	5	5	4	5	3	4	
20	2	2	4	4	6	5	5	6	2	2	4	4	4	4	4	4	3	3	2	2	4	5	5	5	
21	2	2	5	5	5	5	5	5	1	3	5	5	5	5	3	4	2	2	5	5	6	5	4	5	
22	1	1	4	3	5	5	6	4	3	2	3	4	5	6	5	5	2	2	5	5	5	6	3	4	
23	2	2	3	3	4	3	5	6	2	2	3	3	5	6	3	5	3	3	4	4	4	4	5	5	
24	3	3	4	4	4	4	6	5	3	3	5	5	5	6	5	3	5	5	5	5	4	4	3	3	
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26	2	2	4	4	4	4	5	5	2	2	4	3	4	4	4	5	3	3	2	2	4	4	4	5	
27	3	3	5	5	5	5	6	6	3	3	4	3	4	3	6	5	3	3	5	5	5	5	4	3	
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34	2	2	5	5	5	5	6	6	2	2	5	5	5	4	5	4	3	3	5	5	5	5	5	5	
35	2	2	5	5	5	5	5	5	2	2	5	5	5	5	5	5	3	3	5	5	5	5	5	5	

Cilok substitusi tepung kacang merah dan tepung kulit pisang																								
Formulasi 7 (TM25%:TK75% ; G6%) Formulasi 8 (TM50%:TK50% ; G6%) Formulasi 9 (TM75%:TK25% ; G6%)																								
Panelis	Warna		Aroma		Rasa		Tekstur		Warna		Aroma		Rasa		Tekstur		Warna		Aroma		Rasa		Tekstur	
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
1	3	2	4	5	5	4	6	6	3	2	3	5	4	5	5	6	3	3	3	3	4	5	4	2
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16	2	2	5	5	5	6	5	5	2	2	5	5	6	5	5	5	1	1	5	5	5	6	5	5
17	1	3	5	4	5	5	6	5	2	3	5	3	4	5	4	4	4	4	5	4	5	5	5	6
18	1	1	4	4	5	6	5	6	1	1	4	4	6	4	5	5	2	2	4	4	5	5	5	5
19	1	1	5	5	5	4	5	5	1	1	5	5	4	5	6	5	2	2	5	5	6	5	5	5
20	2	2	5	3	5	5	5	5	2	2	3	4	6	4	6	6	3	1	4	3	6	6	6	6
21	3	3	5	5	5	5	5	5	2	2	5	5	5	5	6	5	2	2	4	5	5	5	4	4
22	1	1	5	5	5	6	5	5	1	1	5	6	5	5	6	5	2	2	5	5	5	5	2	3
23	2	2	6	4	6	5	5	6	2	2	4	5	5	4	5	6	3	2	5	5	6	5	5	5
24	2	2	5	5	5	5	5	5	2	2	5	5	6	6	6	5	4	4	4	4	5	5	2	2
25	2	2	4	3	4	5	5	5	2	2	2	3	4	6	5	3	3	3	6	5	6	5	6	6
26	1	1	3	3	6	5	6	5	2	2	2	2	6	5	6	4	3	3	3	3	5	5	5	5
27	3	3	4	4	6	5	5	6	3	3	5	5	5	5	6	6	3	3	4	4	4	5	4	5
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30	2	2	4	4	5	6	4	5	2	2	4	4	5	6	5	4	3	3	4	4	4	4	5	5
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33	1	1	5	5	5	6	5	5	1	1	5	5	5	5	4	6	2	2	4	4	6	5	5	5
34	1	2	5	5	5	5	5	5	2	2	5	5	5	5	5	5	3	3	5	5	5	5	5	5
35	2	2	5	5	5	5	5	5	2	2	5	5	5	5	5	6	3	3	5	5	5	5	5	5

I.2 Analisis statistik nilai skoring cilok substitusi

Tests of Between-Subjects Effects

Dependent Variable: Warna skoring

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4,517 ^a	8	,565	296,411	,000
Intercept	95,615	1	95,615	50197,714	,000
Rasio_tepung	4,344	2	2,172	1140,286	,000
Konsentrasi_garam	,041	2	,021	10,786	,004
Rasio_tepung *	,132	4	,033	17,286	,000
Konsentrasi_garam					
Error	,017	9	,002		
Total	100,149	18			
Corrected Total	4,534	17			

a, R Squared = ,996 (Adjusted R Squared = ,993)

Warna skoring

Duncan

Sampel	N	Subset					
		1	2	3	4	5	6
KM25:KP75*G2%	2	1,7					
KM25:KP75*G4%	2		1,857142858				
KM25:KP75*G6%	2		1,928571429				
KM50:KP50*G6%	2			2,057142857			
KM50:KP50*G2%	2			2,071428572			
KM50:KP50*G4%	2				2,185714286		
KM75:KP25*G6%	2					2,800000000	
KM75, KP25*G2%	2						3,071428572
KM75:KP25*G4%	2						3,071428572
Sig.		1,000	,136	,751	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) = ,002,

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

b, Alpha = ,05,

Tests of Between-Subjects Effects

Dependent Variable: Aroma skoring

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1,178 ^a	8	,147	5,902	,008
Intercept	347,977	1	347,977	13950,727	,000
Rasio_tepung	,642	2	,321	12,864	,002
Konsentrasi_garam	,501	2	,250	10,038	,005
Rasio_tepung * Konsentrasi_garam	,035	4	,009	,354	,835
Error	,224	9	,025		
Total	349,380	18			
Corrected Total	1,402	17			

a. R Squared = ,840 (Adjusted R Squared = ,698)

Aroma skoring

Duncan

Rasio_tepung	N	Subset	
		1	2
75:25	6	4,1428571	
50:50	6		4,4523810
25:75	6		4,5952381
Sig.		1,000	,152

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) = ,025,

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

b, Alpha = ,05,

Aroma skoring

Duncan

Konsentrasi_garam	N	Subset	
		1	2
6	6	4,2428571	
4	6	4,3190476	
2	6		4,6285714
Sig.		,425	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,025,

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

b, Alpha =,05,

Tests of Between-Subjects Effects

Dependent Variable: Rasa skoring

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2,936 ^a	8	,367	53,955	,000
Intercept	379,304	1	379,304	55757,760	,000
Rasio_tepung	,001	2	,001	,080	,924
Konsentrasi_garam	2,916	2	1,458	214,340	,000
Rasio_tepung * Konsentrasi_garam	,019	4	,005	,700	,611
Error	,061	9	,007		
Total	382,302	18			
Corrected Total	2,998	17			

a, R Squared =,980 (Adjusted R Squared =,961)

Rasa skoring

Duncan

Rasio_tepung	N	Subset
		1
25:75	6	4,58095238100
50:50	6	4,59047619050
75:25	6	4,60000000000
Sig.		,711

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,007,

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

b, Alpha =,05,

Rasa skoring

Duncan

Konsentrasi_garam	N	Subset		
		1	2	3
2	6	4,07142857150		
4	6		4,64761904750	
6	6			5,05238095250
Sig,		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,007,

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

b, Alpha =,05,

Tests of Between-Subjects Effects

Dependent Variable: Tekstur skoring

Source	Type III Sum of Squares	df	Mean Square	F	Sig,
Corrected Model	4,132 ^a	8	,517	43,636	,000
Intercept	407,891	1	407,891	34459,774	,000
Rasio_tepung	2,563	2	1,281	108,245	,000
Konsentrasi_garam	1,052	2	,526	44,429	,000
Rasio_tepung *	,518	4	,129	10,935	,002
Konsentrasi_garam					
Error	,107	9	,012		
Total	412,130	18			
Corrected Total	4,239	17			

a, R Squared =,975 (Adjusted R Squared =,953)

Tekstur skoring

Duncan

Sampel	N	Subset			
		1	2	3	4
KM75:KP25*G4%	2	4,01428571400			
KM75:KP25*G2%	2	4,07142857100			
KM50:KP50*G4%	2		4,45714285700		
KM50:KP50*G2%	2		4,68571428550	4,68571428550	
KM75:KP25*G6%	2			4,78571428600	
KM25:KP75*G2%	2			4,91428571400	
KM50:KP50*G6%	2				5,18571428600
KM25:KP75*G6%	2				5,32857142850
KM25:KP75*G4%	2				5,40000000000
Sig,		,612	,065	,075	,092

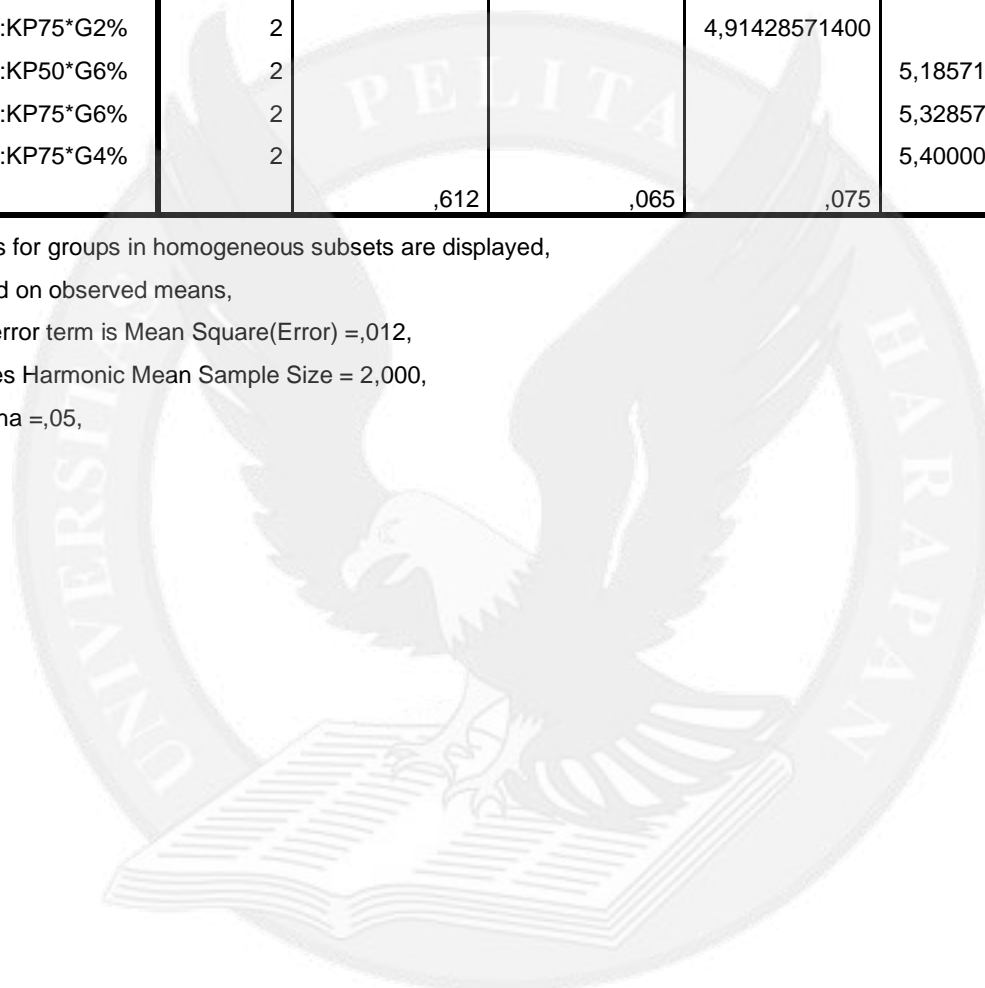
Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,012,

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

b, Alpha =,05,



Lampiran J. Kuesioner Uji Hedonik

J1. Kuesioner uji hedonik

UJI HEDONIK

Nama:

Tanggal:

Jurusan/Angkatan: Teknologi Pangan/

Sampel : Cilok

Petunjuk:

Cicipi sampel dari **KIRI** ke **KANAN**, Bilaslah mulut dengan menggunakan air minum yang disediakan sebelum mencicipi antar sampel. **JANGAN MEMBANDINGKAN ANTAR SAMPEL DAN TIDAK DIPERBOLEHKAN UNTUK MENGULANGI PENGUJIAN.**

Parameter	Kode Sampel								
Warna									
Aroma									
Rasa									
Tekstur									
Keseluruhan									

Keterangan:

1 = Sangat tidak suka

2 = Tidak suka

3 = Agak tidak suka

4 = Netral

5 = Agak Suka

6 = Suka

7 = Sangat suka

Lampiran K. Nilai Hedonik

K.1 Data nilai hedonik cilok substitusi

Cilok substitusi tepung kacang merah dan tepung kulit pisang																															
Formulasi 1 (TM25%:TK 75% ; G2%)										Formulasi 2 (TM50%:TK 50% ; G2%)										Formulasi 3 (TM75%:TK 25% ; G2%)											
Panelis	Warna		Aroma		Rasa		Tekstur		Keseluruhan		Warna		Aroma		Rasa		Tekstur		Keseluruhan		Warna		Aroma		Rasa		Tekstur		Keseluruhan		
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	
1	4	4	4	4	5	5	6	6	5	5	4	4	5	5	5	5	5	5	4	4	5	5	4	5	4	4	6	6	4	4	
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7	5	5	4	4	4	5	5	5	4	4	4	4	5	5	5	4	4	3	4	4	5	5	4	4	5	4	4	5	4	4	
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13	3	3	3	4	3	4	6	6	5	5	4	5	4	3	4	3	5	5	4	4	2	3	5	6	2	2	6	6	4	4	
14	4	4	5	5	5	5	5	5	5	5	4	3	3	5	5	4	5	5	5	5	5	5	4	4	4	4	4	4	4	4	
15	3	3	4	4	3	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	3	4	4	3	3	3	3	5	5	
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17	4	4	3	3	3	3	4	4	5	5	5	4	2	2	4	3	4	4	4	4	5	5	3	3	3	3	4	4	4	4	
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26	4	4	5	6	3	3	6	6	4	3	4	3	5	5	3	4	5	5	3	4	3	3	4	4	4	4	6	6	5	4	
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28	5	5	3	4	5	5	6	6	4	6	5	5	4	5	5	5	5	5	5	5	5	5	5	5	6	4	4	6	6	5	5
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Cilok substitusi tepung kacang merah dan tepung kulit pisang

Formulasi 4 (TM25%:TK 75% ; G4%)

Formulasi 5 (TM50%:TK 50% ; G4%)

Formulasi 6 (TM75%:TK 25% ; G4%)

Panelis	Formulasi 4 (TM25%:TK 75% ; G4%)					Formulasi 5 (TM50%:TK 50% ; G4%)					Formulasi 6 (TM75%:TK 25% ; G4%)																				
	Warna		Aroma		Rasa		Tekstur		Keseluruhan		Warna		Aroma		Rasa		Tekstur		Keseluruhan		Warna		Aroma		Rasa		Tekstur		Keseluruhan		
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	
1	5	5	4	4	3	3	3	3	5	5	4	4	4	5	6	6	6	6	4	4	4	5	5	4	6	6	6	6	5	5	
2	5	6	4	4	4	4	4	4	4	4	5	4	5	5	5	5	3	3	5	5	4	5	5	5	4	4	4	4	6	6	
3	6	6	5	5	4	4	4	4	4	4	5	5	4	4	5	5	5	5	5	5	5	5	4	4	5	5	3	3	5	5	
4	5	5	4	4	6	6	4	4	6	6	5	5	3	3	5	4	5	5	5	5	4	4	4	4	5	3	5	4	6	6	
5	5	5	5	5	3	3	4	4	5	5	4	4	3	3	6	6	3	3	4	4	5	5	4	4	6	6	4	4	5	5	
6	5	5	5	4	5	4	4	4	4	4	4	4	4	4	4	5	3	3	5	5	4	4	5	4	5	4	4	4	6	6	
7	4	4	4	4	4	5	5	3	4	6	5	4	5	5	5	4	4	3	5	5	4	4	5	5	5	4	4	3	4	3	
8	5	5	5	5	4	4	3	3	5	5	5	5	4	4	5	5	6	6	4	4	5	5	4	4	4	4	6	6	5	5	
9	4	4	5	5	3	3	6	5	3	3	5	5	3	3	6	6	5	3	4	4	4	4	4	4	4	6	6	4	3	4	5
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11	5	5	5	5	3	3	5	6	3	3	5	5	4	4	6	6	6	5	6	6	4	4	5	5	6	6	4	5	6	6	
12	4	4	4	4	3	3	6	5	4	3	5	5	5	5	2	2	5	6	3	5	4	4	5	5	2	3	5	4	5	4	
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14	5	5	5	5	3	3	5	5	4	4	4	4	4	4	6	6	6	6	5	5	5	4	4	4	6	6	4	5	4	4	
15	3	4	4	4	3	3	4	4	4	4	4	3	4	4	3	4	3	3	5	5	3	3	4	4	4	4	4	4	5	5	
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19	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	3	3	5	5	4	4	5	5	5	5	4	4	6	6	

20	3	4	6	6	4	4	3	3	4	4	4	5	5	5	4	4	6	6	4	4	5	3	6	6	5	5	6	6	4	4	
21	4	4	4	5	4	4	5	6	3	3	5	5	5	5	5	4	3	3	4	4	4	4	3	4	3	5	4	3	4		
22	4	4	4	4	4	4	3	3	3	4	4	4	5	5	5	6	6	5	5	4	4	5	5	5	5	6	6	6	6		
23	3	3	4	4	3	5	4	3	5	3	5	5	4	4	6	6	3	4	4	5	4	4	5	5	6	6	5	5	4	3	
24	4	4	4	4	4	5	3	3	5	5	5	5	5	5	3	3	6	6	4	4	4	4	3	4	4	6	6	5	5		
25	4	4	4	4	3	3	5	6	5	6	5	5	5	5	6	6	6	5	5	5	5	5	5	6	6	5	6	6	6		
26	4	4	4	3	3	3	3	3	4	5	4	4	4	3	4	4	6	6	5	5	5	5	4	5	4	4	6	6	4	3	
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28	5	5	6	4	3	5	3	3	3	4	5	5	3	2	6	6	6	6	5	5	5	5	4	3	6	6	6	6	6	6	
29	4	4	4	4	6	5	5	5	3	4	5	5	5	5	5	6	4	4	4	4	5	4	4	5	5	6	5	5	5	6	5
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31	4	4	4	5	4	4	3	3	4	4	5	5	2	4	4	4	6	6	3	3	4	4	5	5	4	4	6	6	4	5	
32	5	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	6	6	
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35	4	4	5	5	5	5	4	5	4	4	5	5	4	4	4	5	6	5	5	5	5	5	4	4	4	4	4	4	5	6	6

Cilok substitusi tepung kacang merah dan tepung kulit pisang

Panelis	Formulasi 7 (TM25%:TK 75% ; G6%)										Formulasi 8 (TM50%:TK 50% ; G6%)										Formulasi 9 (TM75%:TK 25% ; G6%)									
	Warna		Aroma		Rasa		Tekstur		Keseluruhan		Warna		Aroma		Rasa		Tekstur		Keseluruhan		Warna		Aroma		Rasa		Tekstur		Keseluruhan	
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
1	5	5	5	4	6	6	3	3	5	5	4	5	5	5	7	7	6	6	5	5	5	5	5	6	6	6	6	4	4	
2	5	5	5	5	5	5	4	4	5	5	4	4	6	6	6	4	4	7	7	4	6	5	5	5	5	3	3	6	6	
3	5	5	5	5	5	5	4	4	5	5	5	5	5	6	6	4	3	6	6	5	5	3	3	5	5	3	5	4	5	
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7	4	5	5	5	5	4	5	4	4	4	5	5	6	6	5	4	5	5	6	5	5	6	5	5	5	4	4	3	5	4
8	6	6	5	5	5	5	3	3	5	5	6	6	5	5	6	6	6	6	5	5	6	5	3	3	4	4	6	6	4	4
9	5	5	5	5	6	6	3	3	4	3	6	6	5	5	7	7	3	4	5	6	4	4	5	5	6	6	3	4	5	4
10	5	5	5	5	4	4	5	5	5	5	6	6	5	5	5	6	6	7	7	4	4	3	3	4	4	4	5	4	6	6
11	5	5	4	4	6	6	4	4	6	6	6	6	5	5	7	7	4	5	7	7	6	6	6	6	6	6	5	6	6	6
12	5	5	5	5	3	4	5	4	4	6	6	6	6	6	4	3	5	4	5	5	4	4	5	5	3	3	5	5	5	5
13	5	3	5	4	4	3	3	3	5	5	3	3	5	6	5	5	6	6	5	5	3	4	7	7	4	4	6	6	4	4
14	5	5	5	5	6	6	4	5	5	5	5	5	5	5	7	7	6	5	6	6	5	4	3	3	6	6	4	5	4	4
15	3	5	4	4	3	3	4	4	6	6	5	3	4	4	4	4	4	4	6	6	5	4	4	4	3	3	3	3	6	6
16	5	5	5	5	4	4	5	5	5	5	6	6	6	6	4	4	5	5	7	7	4	4	4	5	4	4	3	3	6	6
17	4	4	3	3	3	3	4	4	5	5	3	3	4	4	5	5	4	4	7	5	5	3	4	5	4	4	4	4	4	4

18	6	7	4	4	6	6	3	3	5	5	6	6	3	3	7	7	6	6	7	6	7	7	4	4	6	6	6	6	5	5
19	4	5	5	5	5	5	4	4	5	5	6	6	6	6	6	6	4	4	7	7	5	4	4	5	6	5	3	3	6	6
20	4	4	6	6	5	5	3	3	4	4	4	5	5	5	6	6	6	6	6	5	5	6	6	6	6	6	6	6	3	3
21	4	5	6	5	4	5	6	5	3	4	6	6	5	4	6	5	6	5	7	6	5	4	6	3	4	5	6	5	4	3
22	4	4	5	5	5	5	3	3	5	5	5	4	6	6	6	6	6	6	7	7	4	4	6	5	5	6	6	6	6	6
23	4	4	5	5	6	6	4	4	4	3	6	5	6	6	7	7	4	5	7	6	6	6	6	6	6	6	6	5	6	5
24	5	5	4	5	5	5	3	3	4	5	6	6	6	5	4	4	6	6	5	5	5	4	4	5	5	5	6	5	4	4
25	5	5	5	5	6	6	5	6	5	6	6	6	6	6	7	7	4	5	5	5	6	6	5	6	6	6	5	5	6	6
26	5	5	5	6	3	3	3	3	6	5	5	5	7	6	4	4	6	6	5	4	6	6	5	5	3	3	6	6	6	3
27	5	5	5	5	2	2	6	6	5	5	6	6	5	5	3	4	4	6	6	6	4	4	3	3	4	4	5	5	6	5
28	5	5	4	3	6	6	3	3	5	5	5	5	6	6	7	7	6	6	7	7	5	5	4	4	6	6	6	6	6	6
29	5	5	5	5	5	4	4	4	5	5	6	6	6	6	7	7	4	5	7	6	4	4	5	5	6	6	6	6	5	4
30	6	6	3	5	5	5	5	5	5	5	6	6	5	3	5	5	6	6	7	7	6	6	4	5	3	3	5	5	6	6
31	5	5	4	5	4	4	3	3	4	3	6	6	4	3	4	4	6	6	5	4	5	4	4	3	4	4	6	6	4	4
32	5	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	5	4	5	5	4	5	4	5	6	6
33	5	4	4	5	6	6	6	6	4	6	5	4	4	5	7	7	6	5	7	6	5	4	4	5	6	6	6	6	5	5
34	5	5	6	5	4	6	3	3	5	5	6	6	5	4	5	5	6	6	5	5	4	4	4	5	5	5	6	6	3	3
35	6	6	5	5	4	5	4	6	5	5	7	7	5	4	5	5	6	5	7	7	6	6	3	3	4	5	6	6	6	6

K.2 Analisis statistik nilai hedonik cilok substitusi

Tests of Between-Subjects Effects

Dependent Variable: Warna hedonik

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1,550 ^a	8	,194	51,473	,000
Intercept	388,541	1	388,541	103220,832	,000
Rasio_tepung	,441	2	,221	58,639	,000
Konsentrasi_garam	1,021	2	,511	135,627	,000
Rasio_tepung * Konsentrasi_garam	,088	4	,022	5,813	,014
Error	,034	9	,004		
Total	390,125	18			
Corrected Total	1,584	17			

a. R Squared = ,979 (Adjusted R Squared = ,960)

Warna Hedonik

Dependent Variable: Warna hedonik

Sampel	Mean	Std, Error	95% Confidence Interval	
			Lower Bound	Upper Bound
KM25:KP75*G2%	4,571	,043	4,473	4,670
KM50:KP50*G2%	4,657	,043	4,559	4,755
KM75, KP25*G2%	4,300	,043	4,202	4,398
KM25:KP75*G4%	4,314	,043	4,216	4,412
KM50:KP50*G4%	4,657	,043	4,559	4,755
KM75:KP25*G4%	4,371	,043	4,273	4,470
KM25:KP75*G6%	4,857	,043	4,759	4,955
KM50:KP50*G6%	5,271	,043	5,173	5,370
KM75:KP25*G6%	4,814	,043	4,716	4,912

Tests of Between-Subjects Effects

Dependent Variable: Aroma hedonik

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1,380 ^a	8	,172	13,630	,000
Intercept	354,287	1	354,287	28000,090	,000
Rasio_tepung	,067	2	,034	2,649	,125
Konsentrasi_garam	1,022	2	,511	40,369	,000
Rasio_tepung * Konsentrasi_garam	,291	4	,073	5,751	,014
Error	,114	9	,013		
Total	355,780	18			
Corrected Total	1,494	17			

a. R Squared = ,924 (Adjusted R Squared = ,856)

Aroma hedonik

Duncan

Sampel	N	Subset			
		1	2	3	4
KM75:KP25*G2%	2	4,12857142850			
KM50:KP50*G2%	2	4,14285714250			
KM25:KP75*G2%	2	4,21428571400	4,21428571400		
KM50:KP50*G4%	2	4,30000000000	4,30000000000		
KM75:KP25*G4%	2		4,44285714250	4,44285714250	
KM25:KP75*G4%	2		4,47142857150	4,47142857150	
KM75:KP25*G6%	2		4,48571428550	4,48571428550	
KM25:KP75*G6%	2			4,70000000000	
KM50:KP50*G6%	2				5,04285714250
Sig,		,187	,053	,061	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,013,

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

b, Alpha =,05,

Tests of Between-Subjects Effects

Dependent Variable: Rasa hedonik

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4,952 ^a	8	,619	73,983	,000
Intercept	369,120	1	369,120	44119,565	,000
Rasio_tepung	1,309	2	,654	78,216	,000
Konsentrasi_garam	3,002	2	1,501	179,385	,000
Rasio_tepung * Konsentrasi_garam	,641	4	,160	19,166	,000
Error	,075	9	,008		
Total	374,147	18			
Corrected Total	5,027	17			

a. R Squared = ,985 (Adjusted R Squared = ,972)

Rasa hedonik

Duncan

Sampel	N	Subset			
		1	2	3	4
KM25:KP75*G4%	2	3,84285714250			
KM75,KP25*G2%	2	3,91428571450			
KM25:KP75*G2%	2	4,04285714250			
KM50:KP50*G2%	2		4,32857142850		
KM75:KP25*G4%	2			4,68571428550	
KM50:KP50*G4%	2			4,71428571400	
KM25:KP75*G6%	2			4,77142857150	
KM75:KP25*G6%	2			4,87016806750	
KM50:KP50*G6%	2				5,58571428550
Sig,		,066	1,000	,092	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

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

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

b, Alpha =,05,

Tests of Between-Subjects Effects

Dependent Variable: Tekstur hedonik

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2,257 ^a	8	,282	60,612	,000
Intercept	390,151	1	390,151	83807,020	,000
Rasio_tepung	,809	2	,404	86,854	,000
Konsentrasi_garam	,018	2	,009	1,922	,202
Rasio_tepung * Konsentrasi_garam	1,431	4	,358	76,836	,000
Error	,042	9	,005		
Total	392,450	18			
Corrected Total	2,299	17			

a. R Squared = ,982 (Adjusted R Squared = ,966)

Tekstur hedonik

Duncan

Sampel	N	Subset				
		1	2	3	4	5
KM25:KP75*G4%	2	4,08571428550				
KM25:KP75*G6%	2	4,08571428550				
KM50:KP50*G2%	2		4,40000000000			
KM75, KP25*G2%	2			4,68571428550		
KM50:KP50*G4%	2				4,84285714300	
KM75:KP25*G6%	2				4,88571428550	
KM25:KP75*G2%	2				4,90000000000	
KM75:KP25*G4%	2				4,91428571450	
KM50:KP50*G6%	2					5,10084033600
Sig,		1,000	1,000	1,000	,352	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,005,

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

b, Alpha =,05,

Tests of Between-Subjects Effects

Dependent Variable: Keseluruhan hedonik

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4,368 ^a	8	,546	49,249	,000
Intercept	421,296	1	421,296	37996,640	,000
Rasio_tepung	,428	2	,214	19,303	,001
Konsentrasi_garam	1,805	2	,902	81,386	,000
Rasio_tepung * Konsentrasi_garam	2,136	4	,534	48,153	,000
Error	,100	9	,011		
Total	425,765	18			
Corrected Total	4,468	17			

a. R Squared = ,978 (Adjusted R Squared = ,958)

Keseluruhan hedonik

Duncan

Sampel	N	Subset			
		1	2	3	4
KM25:KP75*G4%	2	4,22857142850			
KM75:KP25*G2%	2	4,38571428600	4,38571428600		
KM50:KP50*G2%	2		4,54285714250		
KM50:KP50*G4%	2		4,57142857150		
KM25:KP75*G6%	2			4,87142857150	
KM25:KP75*G2%	2			4,91260504200	
KM75:KP25*G6%	2			4,97142857150	
KM75:KP25*G4%	2			5,04285714300	
KM50:KP50*G6%	2				6,01428571400
Sig,		,170	,126	,162	1,000

Means for groups in homogeneous subsets are displayed,

Based on observed means,

The error term is Mean Square(Error) =,011,

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

b, Alpha =,05,

Lampiran L.1 Uji varietas pisang kepok dan kacang merah

L1. Uji varietas pisang kepok dan kacang merah



LEMBAGA ILMU PENGETAHUAN INDONESIA
(INDONESIAN INSTITUTE OF SCIENCES)
PUSAT PENELITIAN KONSERVASI TUMBUHAN DAN KEBUN RAYA
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Jalan Ir. H. Juanda No. 13, PO Box 309 Bogor 16003, Indonesia
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Nomor : B-1270 /IPH.3/KS/X/2020
Sifat : -
Lamp. : -
Perihal : Identifikasi tanaman

Bogor, 23 Oktober 2020

Yth. W. Donald R. Pokatong, Ph.D.
Ketua Program Studi Teknologi Pangan
Fak. Sains dan Teknologi
Universitas Pelita Harapan (UPH)
Tangerang 15811

Menindak lanjuti surat Saudara Nomor 421/TP-FaST-UPH/IX/2020 tanggal 09 September 2020, dengan ini kami sampaikan hasil identifikasi berupa buah dan biji yang dikirim ke Pusat Penelitian Konservasi Tumbuhan dan Kebun Raya – LIPI oleh :

N a m a : Jessica Jocelyn
N I M : 01034170021
Prodi : Teknologi Pangan

adalah dari jenis :

1. *Musa x paradisiaca* L., suku Musaceae, pisang sepatu, pisang kepok.
2. *Phaseolus vulgaris* L., suku Leguminosae/Papilionaceae, kacang merah/buncis.

Demikian kami sampaikan dan untuk dipergunakan sebagaimana mestinya.



Kepala

Dr. R. Hendrian, M.Sc.