LAMPIRAN

Lampiran 1. Standar Mutu Bihun Instan

Standar Mutu Bihun Instan Menurut SNI 01-3742-1995

No.	Uraian	Satuan	Persyaratan
1.	Keadaan :		
	1.1. bau		normal
	1.2. rasa		normal
	1.3. warna		normal
2.	Benda-benda asing		tidak boleh ada
3.	Keutuhan, %, b/b		min. 90
4.	Uji kematangan (bihun : air = 1 : 5) b/b	menit	maks. 3
5.	Air, %, b/b		maks. 11
6.	Abu tanpa garam, %, b/b		maks. 2
7.	Protein (N x 6,25), %, b/b		min. 6
8.	Derajat asam, mg KOH/100g contoh		maks. 3
9.	Bahan tambahan makanan		Sesuai SNI.0222-M dan Peraturan Men. Kes. No. 722/Men. Kes/Per/IX/88
10.	Cemaran logam :		
	10.1. Timbal (Pb), mg/kg		maks. 1,0
	10.2. Tembaga (Cu), mg/kg		maks. 10,0
	10.3. Seng (Zn), mg/kg		maks. 40,0
	10.4. Raksa (Hg), mg/kg		maks. 0,05
11.	Arsen (As), mg/kg		maks. 0,5
12.	Cemaran mikroba :		
	12.1. Angka Lempeng total	Koloni/g	maks. $1,0 \times 10^6$
	12.2. E. Coli	APM/g	<3
	12.3. Kapang	Koloni/g	maks. $1,0 \times 10^4$

Sumber : SNI 01-3742-1995, Pusat Standarisasi Industri Departemen Perindustrian

Lampiran 2. *Worksheet* Uji Rating Penerimaan Kwetiau

***Worksheet* Uji Rating Penerimaan**

Tanggal Uji: 21 Januari 2009
Jenis Sampel: Kwetiau

Tujuan:

1. Untuk mengetahui adanya perbedaan tingkat penerimaan aroma, rasa, intensitas rasa (manis), tekstur, warna dan *overall* sampel kwetiau kering instan yang tanpa substitusi tepung labu kuning dengan kwetiau kering instan yang disubsitusi tepung labu kuning terhadap tepung beras 60%, 70% dan 80%.

Identifikasi Sampel:

A. Kwetiau kering instan kontrol (kwetiau yang tanpa disubstitusi tepung labu kuning).
B. Kwetiau kering instan dengan substitusi tepung labu kuning terhadap tepung beras sebesar 60%.
C. Kwetiau kering instan dengan substitusi tepung labu kuning terhadap tepung beras sebesar 70%.
D. Kwetiau kering instan dengan substitusi tepung labu kuning terhadap tepung beras sebesar 80%.

Kode Kombinasi Urutan Penyajian:

ABCD = 1
ACBD = 2
ABDC = 3
ADBC = 4
ACDB = 5
ADCB = 6
BACD = 7
BADC = 8
BCAD = 9
BCDA = 10

Penyajian :

Panelis	Kode Sampel			
1, 11, 21, 31, 41	742	859	964	177
2, 12, 22, 32, 42	421	593	878	636
3, 13, 23, 33, 43	226	392	674	137
4, 14, 24, 34, 44	286	897	311	574
5, 15, 25, 35, 45	522	288	167	659
6, 16, 26, 36, 46	618	157	994	772
7, 17, 27, 37, 47	935	471	582	856
8, 18, 28, 38, 48	447	218	524	951
9, 19, 29, 39, 49	834	746	397	662
10, 20, 30, 40, 50	117	336	598	745

Rekap Kode Sampel:

Panelis	Kode Sampel									
A	742	421	226	286	522	618	471	218	397	745
B	859	878	392	311	659	772	935	447	834	117
C	964	593	137	574	288	994	582	951	746	336
D	177	636	674	897	167	157	856	524	662	598

Lampiran 3. *Scoresheet* Uji *Rating* Penerimaan Kwetiau

Uji *Rating* Penerimaan

KUESIONER

Nama : Tanggal :

Sampel : Kwetiau
Atribut : Warna

Dihadapan Anda terdapat 4 sampel kwetiau. Amatilah sampel secara berurutan dari kiri ke kanan. Pengamatan antar sampel tidak boleh diulang dan tidak boleh dibandingkan. Tiap pengamatan antar sampel diberi jeda selama 5 detik. Berilah skor pada tiap kode sampel.

Kode Sampel	Rating (boleh dobel)

Keterangan :
5 = sangat dapat diterima
4 = dapat diterima
3 = netral
2 = tidak dapat diterima
1 = sangat tidak dapat diterima

Komentar:
……
……
……

- Terima Kasih -

KUESIONER

Nama : Tanggal

Sampel : Kwetiau
Atribut : Aroma

Dihadapan Anda terdapat 4 sampel kwetiau. Ciumlah sampel secara berurutan dari kiri ke kanan. Pengujian antar sampel tidak boleh diulang dan tidak boleh dibandingkan. Tiap pengujian antar sampel diberi jeda selama 5 detik. Berilah skor pada tiap kode sampel.

Kode Sampel	Rating (boleh dobel)

Keterangan :

5 = sangat dapat diterima
4 = dapat diterima
3 = netral
2 = tidak dapat diterima
1 = sangat tidak dapat diterima

Komentar:

……
……
……

- Terima Kasih -

KUESIONER

Nama : Tanggal

Sampel : Kwetiau
Atribut : Tekstur

Dihadapan Anda terdapat 4 sampel kwetiau. Peganglah dan kunyahlah sampel secara berurutan dari kiri ke kanan. Pengujian antar sampel tidak boleh diulang dan tidak boleh dibandingkan. Tiap pengujian antar sampel diberi jeda selama 5 detik. Berilah skor pada tiap kode sampel.

Kode Sampel	Rating (boleh dobel)

Keterangan :

5 = sangat dapat diterima
4 = dapat diterima
3 = netral
2 = tidak dapat diterima
1 = sangat tidak dapat diterima

Komentar:

……
……
……

- Terima Kasih -

KUESIONER

Nama : Tanggal

Sampel : Kwetiau
Atribut : Rasa

Berkumur- kumurlah dulu sebelum menguji sampel. Dihadapan Anda terdapat 4 sampel kwetiau. Cicipilah sampel secara berurutan dari kiri ke kanan, dan rasakan masing-masing. Pengujian antar sampel tidak boleh diulang dan tidak boleh dibandingkan. Tiap pengujian antar sampel berkumurlah dengan air yang disediakan dan diberi jeda selama 5 detik. Berilah skor pada tiap kode sampel.

Berilah skor pada tiap kode sampel.

Kode Sampel	Rating (boleh dobel)

Keterangan :

5 = sangat dapat diterima
4 = dapat diterima
3 = netral
2 = tidak dapat diterima
1 = sangat tidak dapat diterima

Komentar:

……
……
……

- Terima Kasih -

KUESIONER

Nama : Tanggal

Sampel : Kwetiau
Atribut : Intensitas Rasa (Manis)

Berkumur- kumurlah dulu sebelum menguji sampel. Dihadapan Anda terdapat 4 sampel kwetiau. Cicipilah sampel secara berurutan dari kiri ke kanan, dan rasakan masing-masing. Pengujian antar sampel tidak boleh diulang dan tidak boleh dibandingkan. Tiap pengujian antar sampel berkumurlah dengan air yang disediakan dan diberi jeda selama 5 detik. Berilah skor pada tiap kode sampel.

Berilah skor pada tiap kode sampel.

Kode Sampel	Rating (boleh dobel)

Keterangan :

5 = sangat dapat diterima
4 = dapat diterima
3 = netral
2 = tidak dapat diterima
1 = sangat tidak dapat diterima

Komentar:

……
……
……

- Terima Kasih -

KUESIONER

Nama : Tanggal

Sampel : Kwetiau
Atribut : *overall*

Dihadapan Anda terdapat 4 sampel kwetiau. Amatilah sampel secara berurutan dari kiri ke kanan. Pengamatan antar sampel tidak boleh diulang dan tidak boleh dibandingkan. Tiap pengamatan antar sampel diberi jeda selama 5 detik. Berilah skor pada tiap kode sampel.

Berilah skor pada tiap kode sampel.

Kode Sampel	Rating (boleh dobel)

Keterangan :

5 = sangat dapat diterima
4 = dapat diterima
3 = netral
2 = tidak dapat diterima
1 = sangat tidak dapat diterima

Komentar:

……

……

……

- Terima Kasih -

Lampiran 4. Uji Normalitas Sifat Fisik dan Kimia Kwetiau

Descriptives

	Perlakuan			Statistic	Std.Error
air	kontrol	Mean		9.475017	.0709529
		95% Confidence Interval for Mean	Lower Bound	9.292626	
			Upper Bound	9.657407	
		5% Trimmed Mean		9.479180	
		Median		9.508000	
		Variance		.030	
		Std. Deviation		.1737984	
		Minimum		9.2211	
		Maximum		9.6540	
		Range		.4329	
		Interquartile Range		.3191	
		Skewness		-.501	.845
		Kurtosis		-1.542	1.741
	substitusi 60%	Mean		9.441867	.0540274
		95% Confidence Interval for Mean	Lower Bound	9.302985	
			Upper Bound	9.580748	
		5% Trimmed Mean		9.441980	
		Median		9.430750	
		Variance		.018	
		Std. Deviation		.1323395	
		Minimum		9.2658	
		Maximum		9.6159	
		Range		.3501	
		Interquartile Range		.2527	
		Skewness		.084	.845
		Kurtosis		-1.239	1.741
	substitusi 70%	Mean		9.430800	.0705477
		95% Confidence Interval for Mean	Lower Bound	9.249451	
			Upper Bound	9.612149	
		5% Trimmed Mean		9.429467	
		Median		9.471300	
		Variance		.030	
		Std. Deviation		.1728059	
		Minimum		9.2287	
		Maximum		9.6569	
		Range		.4282	
		Interquartile Range		.3289	
		Skewness		-.184	.845
		Kurtosis		-1.508	1.741

	substitusi 80%	Mean		9.343183	.0549641
		95% Confidence Interval for Mean	Lower Bound	9.201894	
			Upper Bound	9.484473	
		5% Trimmed Mean		9.347354	
		Median		9.358900	
		Variance		.018	
		Std. Deviation		.1346340	
		Minimum		9.1128	
		Maximum		9.4985	
		Range		.3857	
		Interquartile Range		.2124	
		Skewness		-.943	.845
		Kurtosis		1.218	1.741
lemak	kontrol	Mean		6.024667	.1409281
		95% Confidence Interval for Mean	Lower Bound	5.662399	
			Upper Bound	6.386934	
		5% Trimmed Mean		6.024469	
		Median		6.020750	
		Variance		.119	
		Std. Deviation		.3452020	
		Minimum		5.5345	
		Maximum		6.5184	
		Range		.9839	
		Interquartile Range		.5628	
		Skewness		.021	.845
		Kurtosis		-.266	1.741
	substitusi 60%	Mean		6.498700	.0742939
		95% Confidence Interval for Mean	Lower Bound	6.307721	
			Upper Bound	6.689679	
		5% Trimmed Mean		6.494539	
		Median		6.485700	
		Variance		.033	
		Std. Deviation		.1819822	
		Minimum		6.2870	
		Maximum		6.7853	
		Range		.4983	
		Interquartile Range		.2969	
		Skewness		.581	.845
		Kurtosis		-.335	1.741
	substitusi 70%	Mean		6.586117	.0480034
		95% Confidence Interval for Mean	Lower Bound	6.462720	
			Upper Bound	6.709513	
		5% Trimmed Mean		6.587569	

		Median		6.579000	
		Variance		.014	
		Std. Deviation		.1175838	
		Minimum		6.4236	
		Maximum		6.7225	
		Range		.2989	
		Interquartile Range		.2361	
		Skewness		-.063	.845
		Kurtosis		-1.238	1.741
	substitusi 80%	Mean		6.656500	.0468466
		95% Confidence Interval for Mean	Lower Bound	6.536077	
			Upper Bound	6.776923	
		5% Trimmed Mean		6.654178	
		Median		6.625450	
		Variance		.013	
		Std. Deviation		.1147503	
		Minimum		6.5394	
		Maximum		6.8154	
		Range		.2760	
		Interquartile Range		.2318	
		Skewness		.587	.845
		Kurtosis		-1.699	1.741
abu	kontrol	Mean		.364333	.0109228
		95% Confidence Interval for Mean	Lower Bound	.336255	
			Upper Bound	.392411	
		5% Trimmed Mean		.364109	
		Median		.360500	
		Variance		.001	
		Std. Deviation		.0267553	
		Minimum		.3359	
		Maximum		.3968	
		Range		.0609	
		Interquartile Range		.0587	
		Skewness		.317	.845
		Kurtosis		-1.874	1.741
	substitusi 60%	Mean		1.522783	.0557044
		95% Confidence Interval for Mean	Lower Bound	1.379591	
			Upper Bound	1.665976	
		5% Trimmed Mean		1.518815	
		Median		1.493950	
		Variance		.019	
		Std. Deviation		.1364473	
		Minimum		1.3979	
		Maximum		1.7191	

		Range		.3212	
		Interquartile Range		.2537	
		Skewness		.486	.845
		Kurtosis		-1.804	1.741
	substitusi 70%	Mean		1.751967	.0562610
		95% Confidence Interval for Mean	Lower Bound	1.607343	
			Upper Bound	1.896590	
		5% Trimmed Mean		1.755302	
		Median		1.803200	
		Variance		.019	
		Std. Deviation		.1378108	
		Minimum		1.5686	
		Maximum		1.8753	
		Range		.3067	
		Interquartile Range		.2884	
		Skewness		-.751	.845
		Kurtosis		-1.826	1.741
	substitusi 80%	Mean		1.954967	.0330200
		95% Confidence Interval for Mean	Lower Bound	1.870086	
			Upper Bound	2.039847	
		5% Trimmed Mean		1.956019	
		Median		1.986950	
		Variance		.007	
		Std. Deviation		.0808821	
		Minimum		1.8482	
		Maximum		2.0428	
		Range		.1946	
		Interquartile Range		.1573	
		Skewness		-.682	.845
		Kurtosis		-1.681	1.741
protein	kontrol	Mean		4.391900	.1557234
		95% Confidence Interval for Mean	Lower Bound	3.991600	
			Upper Bound	4.792200	
		5% Trimmed Mean		4.381417	
		Median		4.312900	
		Variance		.145	
		Std. Deviation		.3814429	
		Minimum		3.9844	
		Maximum		4.9881	
		Range		1.0037	
		Interquartile Range		.7124	
		Skewness		.722	.845
		Kurtosis		-.552	1.741
	substitusi 60%	Mean		5.849867	.0328725

		95% Confidence Interval for Mean	Lower Bound	5.765365	
			Upper Bound	5.934368	
		5% Trimmed Mean		5.853507	
		Median		5.868600	
		Variance		.006	
		Std. Deviation		.0805209	
		Minimum		5.7114	
		Maximum		5.9228	
		Range		.2114	
		Interquartile Range		.1256	
		Skewness		-1.109	.845
		Kurtosis		.737	1.741
	substitusi 70%	Mean		6.059300	.0681756
		95% Confidence Interval for Mean	Lower Bound	5.884049	
			Upper Bound	6.234551	
		5% Trimmed Mean		6.051811	
		Median		6.015200	
		Variance		.028	
		Std. Deviation		.1669954	
		Minimum		5.8911	
		Maximum		6.3623	
		Range		.4712	
		Interquartile Range		.2449	
		Skewness		1.408	.845
		Kurtosis		2.199	1.741
	substitusi 80%	Mean		6.150750	.0705263
		95% Confidence Interval for Mean	Lower Bound	5.969456	
			Upper Bound	6.332044	
		5% Trimmed Mean		6.152311	
		Median		6.123550	
		Variance		.030	
		Std. Deviation		.1727536	
		Minimum		5.9186	
		Maximum		6.3548	
		Range		.4362	
		Interquartile Range		.3434	
		Skewness		.124	.845
		Kurtosis		-1.272	1.741
srt_ksr	kontrol	Mean		4.192783	.1137419
		95% Confidence Interval for Mean	Lower Bound	3.900401	
			Upper Bound	4.485166	
		5% Trimmed Mean		4.189081	
		Median		4.220650	

	Variance		.078	
	Std. Deviation		.2786096	
	Minimum		3.8586	
	Maximum		4.5936	
	Range		.7350	
	Interquartile Range		.5295	
	Skewness		.100	.845
	Kurtosis		-.866	1.741
substitusi 60%	Mean		10.238017	.2863061
	95% Confidence Interval for Mean	Lower Bound	9.502043	
		Upper Bound	10.973990	
	5% Trimmed Mean		10.244341	
	Median		10.243300	
	Variance		.492	
	Std. Deviation		.7013040	
	Minimum		9.1258	
	Maximum		11.2364	
	Range		2.1106	
	Interquartile Range		.9903	
	Skewness		-.305	.845
	Kurtosis		1.116	1.741
substitusi 70%	Mean		10.834400	.3571220
	95% Confidence Interval for Mean	Lower Bound	9.916389	
		Upper Bound	11.752411	
	5% Trimmed Mean		10.828867	
	Median		10.846650	
	Variance		.765	
	Std. Deviation		.8747666	
	Minimum		9.6548	
	Maximum		12.1136	
	Range		2.4588	
	Interquartile Range		1.4612	
	Skewness		.152	.845
	Kurtosis		-.460	1.741
substitusi 80%	Mean		11.008317	.3347028
	95% Confidence Interval for Mean	Lower Bound	10.147936	
		Upper Bound	11.868697	
	5% Trimmed Mean		10.991485	
	Median		10.944500	
	Variance		.672	
	Std. Deviation		.8198510	
	Minimum		10.1138	
	Maximum		12.2058	
	Range		2.0920	

		Interquartile Range		1.6316	
		Skewness		.387	.845
		Kurtosis		-1.069	1.741
KH	kontrol	Mean		79.744083	.3291422
		95% Confidence Interval for Mean	Lower Bound	78.897996	
			Upper Bound	80.590170	
		5% Trimmed Mean		79.734865	
		Median		79.722700	
		Variance		.650	
		Std. Deviation		.8062305	
		Minimum		78.7909	
		Maximum		80.8632	
		Range		2.0723	
		Interquartile Range		1.3384	
		Skewness		.225	.845
		Kurtosis		-1.770	1.741
	substitusi 60%	Mean		76.617117	.1202720
		95% Confidence Interval for Mean	Lower Bound	76.307948	
			Upper Bound	76.926286	
		5% Trimmed Mean		76.633791	
		Median		76.734750	
		Variance		.087	
		Std. Deviation		.2946051	
		Minimum		76.0628	
		Maximum		76.8713	
		Range		.8085	
		Interquartile Range		.3905	
		Skewness		-1.727	.845
		Kurtosis		3.018	1.741
	substitusi 70%	Mean		76.171817	.0980410
		95% Confidence Interval for Mean	Lower Bound	75.919794	
			Upper Bound	76.423839	
		5% Trimmed Mean		76.177207	
		Median		76.247950	
		Variance		.058	
		Std. Deviation		.2401504	
		Minimum		75.8339	
		Maximum		76.4127	
		Range		.5788	
		Interquartile Range		.4740	
		Skewness		-.655	.845
		Kurtosis		-1.660	1.741
	substitusi 80%	Mean		75.894617	.0676162
		95% Confidence Interval for Mean	Lower Bound	75.720804	

			Upper Bound	76.068430	
		5% Trimmed Mean		75.890241	
		Median		75.853900	
		Variance		.027	
		Std. Deviation		.1656251	
		Minimum		75.7083	
		Maximum		76.1597	
		Range		.4514	
		Interquartile Range		.2883	
		Skewness		.789	.845
		Kurtosis		-.167	1.741
vit_a	kontrol	Mean		30.491333	.9746282
		95% Confidence Interval for Mean	Lower Bound	27.985972	
			Upper Bound	32.996695	
		5% Trimmed Mean		30.374104	
		Median		30.227550	
		Variance		5.699	
		Std. Deviation		2.3873419	
		Minimum		28.2757	
		Maximum		34.8171	
		Range		6.5414	
		Interquartile Range		3.6136	
		Skewness		1.340	.845
		Kurtosis		2.244	1.741
	substitusi 60%	Mean		5535.565400	47.767428 1
		95% Confidence Interval for Mean	Lower Bound	5412.775317	
			Upper Bound	5658.355483	
		5% Trimmed Mean		5540.567183	
		Median		5553.853200	
		Variance		13690.363	
		Std. Deviation		117.0058252	
		Minimum		5317.519	
		Maximum		5663.580	
		Range		346.0607	
		Interquartile Range		137.1583	
		Skewness		-1.504	.845
		Kurtosis		3.247	1.741
	substitusi 70%	Mean		6438.699567	43.880707 8
		95% Confidence Interval for Mean	Lower Bound	6325.900616	
			Upper Bound	6551.498517	
		5% Trimmed Mean		6439.0121	

				80	
		Median		6444.326550	
		Variance		11553.099	
		Std. Deviation		107.4853437	
		Minimum		6296.618	
		Maximum		6575.154	
		Range		278.5367	
		Interquartile Range		215.2329	
		Skewness		-.117	.845
		Kurtosis		-1.359	1.741
	substitusi 80%	Mean		7543.702533	79.3287950
		95% Confidence Interval for Mean	Lower Bound	7339.781374	
			Upper Bound	7747.623693	
		5% Trimmed Mean		7534.324193	
		Median		7522.601250	
		Variance		37758.346	
		Std. Deviation		194.3150697	
		Minimum		7353.791	
		Maximum		7902.424	
		Range		548.6330	
		Interquartile Range		263.7658	
		Skewness		1.473	.845
		Kurtosis		2.754	1.741
kelentingan	kontrol	Mean		1.533917	.0151261
		95% Confidence Interval for Mean	Lower Bound	1.495034	
			Upper Bound	1.572800	
		5% Trimmed Mean		1.532385	
		Median		1.528550	
		Variance		.001	
		Std. Deviation		.0370513	
		Minimum		1.4952	
		Maximum		1.6002	
		Range		.1050	
		Interquartile Range		.0534	
		Skewness		1.258	.845
		Kurtosis		1.952	1.741
	substitusi 60%	Mean		1.126550	.0439204
		95% Confidence Interval for Mean	Lower Bound	1.013649	
			Upper Bound	1.239451	
		5% Trimmed Mean		1.126039	
		Median		1.129400	

		Variance		.012	
		Std. Deviation		.1075826	
		Minimum		1.0039	
		Maximum		1.2584	
		Range		.2545	
		Interquartile Range		.2253	
		Skewness		-.013	.845
		Kurtosis		-2.025	1.741
	substitusi 70%	Mean		1.085483	.0348325
		95% Confidence Interval for Mean	Lower Bound	.995943	
			Upper Bound	1.175023	
		5% Trimmed Mean		1.082309	
		Median		1.069550	
		Variance		.007	
		Std. Deviation		.0853220	
		Minimum		.9945	
		Maximum		1.2336	
		Range		.2391	
		Interquartile Range		.1340	
		Skewness		1.100	.845
		Kurtosis		1.245	1.741
	substitusi 80%	Mean		1.030600	.0403282
		95% Confidence Interval for Mean	Lower Bound	.926933	
			Upper Bound	1.134267	
		5% Trimmed Mean		1.028350	
		Median		.997450	
		Variance		.010	
		Std. Deviation		.0987834	
		Minimum		.9231	
		Maximum		1.1786	
		Range		.2555	
		Interquartile Range		.1836	
		Skewness		.752	.845
		Kurtosis		-1.030	1.741
kekenyalan	kontrol	Mean		.100150	.0039004
		95% Confidence Interval for Mean	Lower Bound	.090124	
			Upper Bound	.110176	
		5% Trimmed Mean		.100183	
		Median		.099900	
		Variance		.000	
		Std. Deviation		.0095540	
		Minimum		.0885	
		Maximum		.1112	
		Range		.0227	

	Interquartile Range	.0201	
	Skewness	.021	.845
	Kurtosis	-1.986	1.741
substitusi 60%	Mean	.062550	.0021659
	95% Confidence Interval for Mean Lower Bound	.056982	
	Upper Bound	.068118	
	5% Trimmed Mean	.062517	
	Median	.061850	
	Variance	.000	
	Std. Deviation	.0053054	
	Minimum	.0554	
	Maximum	.0703	
	Range	.0149	
	Interquartile Range	.0094	
	Skewness	.267	.845
	Kurtosis	-.379	1.741
substitusi 70%	Mean	.043233	.0015320
	95% Confidence Interval for Mean Lower Bound	.039295	
	Upper Bound	.047172	
	5% Trimmed Mean	.043198	
	Median	.043950	
	Variance	.000	
	Std. Deviation	.0037527	
	Minimum	.0386	
	Maximum	.0485	
	Range	.0099	
	Interquartile Range	.0070	
	Skewness	-.060	.845
	Kurtosis	-.918	1.741
substitusi 80%	Mean	.039333	.0016449
	95% Confidence Interval for Mean Lower Bound	.035105	
	Upper Bound	.043562	
	5% Trimmed Mean	.039326	
	Median	.038850	
	Variance	.000	
	Std. Deviation	.0040292	
	Minimum	.0345	
	Maximum	.0443	
	Range	.0098	
	Interquartile Range	.0084	
	Skewness	.215	.845
	Kurtosis	-1.799	1.741

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
air	kontrol	.242	6	.200*	.913	6	.458
	substitusi 60%	.155	6	.200*	.972	6	.905
	substitusi 70%	.210	6	.200*	.902	6	.386
	substitusi 80%	.201	6	.200*	.942	6	.672
lemak	kontrol	.125	6	.200*	.995	6	.998
	substitusi 60%	.182	6	.200*	.956	6	.785
	substitusi 70%	.195	6	.200*	.929	6	.574
	substitusi 80%	.190	6	.200*	.895	6	.343
abu	kontrol	.208	6	.200*	.866	6	.211
	substitusi 60%	.271	6	.192	.868	6	.217
	substitusi 70%	.290	6	.126	.813	6	.077
	substitusi 80%	.300	6	.097	.848	6	.152
protein	kontrol	.204	6	.200*	.937	6	.636
	substitusi 60%	.238	6	.200*	.880	6	.269
	substitusi 70%	.265	6	.200*	.883	6	.285
	substitusi 80%	.224	6	.200*	.910	6	.438
srt_ksr	kontrol	.186	6	.200*	.942	6	.677
	substitusi 60%	.190	6	.200*	.979	6	.947
	substitusi 70%	.129	6	.200*	.990	6	.990
	substitusi 80%	.177	6	.200*	.935	6	.622
KH	kontrol	.237	6	.200*	.917	6	.483
	substitusi 60%	.297	6	.107	.813	6	.076
	substitusi 70%	.211	6	.200*	.886	6	.300
	substitusi 80%	.199	6	.200*	.949	6	.730
vit_a	kontrol	.246	6	.200*	.862	6	.195
	substitusi 60%	.309	6	.075	.862	6	.197
	substitusi 70%	.172	6	.200*	.951	6	.745
	substitusi 80%	.290	6	.125	.864	6	.203
kelentingan	kontrol	.230	6	.200*	.910	6	.435
	substitusi 60%	.191	6	.200*	.913	6	.455
	substitusi 70%	.170	6	.200*	.932	6	.596
	substitusi 80%	.276	6	.170	.905	6	.401
kekenyalan	kontrol	.189	6	.200*	.916	6	.476
	substitusi 60%	.200	6	.200*	.978	6	.939
	substitusi 70%	.227	6	.200*	.926	6	.552
	substitusi 80%	.194	6	.200*	.922	6	.520

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

a. Lilliefors Significance Correction

Lampiran 5. Uji *One Way Anova* Kadar Air

air

Duncan [a]

perlakuan	N	Subset for alpha = .05
		1
substitusi 80%	6	9.343183
substitusi 70%	6	9.430800
substitusi 60%	6	9.441867
kontrol	6	9.475017
Sig.		.190

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 6. Uji *One Way Anova* Kadar Lemak

lemak

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	6	6.024667	
substitusi 60%	6		6.498700
substitusi 70%	6		6.586117
substitusi 80%	6		6.656500
Sig.		1.000	.236

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 7. Uji *One Way Anova* Kadar Abu

abu

Duncan[a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
kontrol	6	.364333			
substitusi 60%	6		1.522783		
substitusi 70%	6			1.751967	
substitusi 80%	6				1.954967
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 8. Uji *One Way Anova* Kadar Protein

protein

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
kontrol	6	4.391900		
substitusi 60%	6		5.849867	
substitusi 70%	6		6.059300	6.059300
substitusi 80%	6			6.150750
Sig.		1.000	.129	.497

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 9. Uji *One Way Anova* Kadar Serat Kasar

srt_ksr

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
kontrol	6	4.192783	
substitusi 60%	6		10.238017
substitusi 70%	6		10.834400
substitusi 80%	6		11.008317
Sig.		1.000	.089

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 10. Uji *One Way Anova* Kadar Karbohidrat

KH

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
substitusi 80%	6	75.894617		
substitusi 70%	6	76.171817	76.171817	
substitusi 60%	6		76.617117	
kontrol	6			79.744083
Sig.		.302	.104	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 11. Uji *One Way Anova* Kadar Vitamin A

vit_a

Duncan[a]

perlakuan	N	Subset for alpha = .05			
		1	2	3	4
kontrol	6	30.491333			
substitusi 60%	6		5535.565		
substitusi 70%	6			6438.700	
substitusi 80%	6				7543.703
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 12. Uji *One Way Anova* Kelentingan

kelentingan

Duncan[a]

perlakuan	N	Subset for alpha = .05	
		1	2
substitusi 80%	6	1.030600	
substitusi 70%	6	1.085483	
substitusi 60%	6	1.126550	
kontrol	6		1.533917
Sig.		.083	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 13. Uji *One Way Anova* Kekenyalan

kekenyalan

Duncan[a]

perlakuan	N	Subset for alpha = .05		
		1	2	3
substitusi 80%	6	.039333		
substitusi 70%	6	.043233		
substitusi 60%	6		.062550	
kontrol	6			.100150
Sig.		.283	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 14. Statistik Uji Sensoris

Test Statistics[a,b]

	warna	aroma	tekstur	rasa	intsts_rs_manis	overall
Chi-Square	13.308	4.445	.688	17.797	50.138	18.294
df	3	3	3	3	3	3
Asymp. Sig.	.004	.217	.876	.000	.000	.000

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

Kwetiau kontrol vs Kwetiau subtitusi tepung labu kuning 60%

Test Statistics[a]

	warna	aroma	tekstur	rasa	intsts_rs_manis	overall
Mann-Whitney U	1093.000	977.500	1159.000	742.000	492.500	735.500
Wilcoxon W	2368.000	2252.500	2434.000	2017.000	1767.500	2010.500
Z	-1.144	-2.032	-.654	-3.770	-5.434	-3.715
Asymp. Sig. (2-tailed)	.253	.042	.513	.000	.000	.000

a. Grouping Variable: perlakuan

Kwetiau kontrol vs Kwetiau subtitusi tepung labu kuning 70%

Test Statistics[a]

	warna	aroma	tekstur	rasa	intsts_rs_manis	overall
Mann-Whitney U	956.000	1059.000	1143.000	773.500	454.000	851.000
Wilcoxon W	2231.000	2334.000	2418.000	2048.500	1729.000	2126.000
Z	-2.132	-1.432	-.772	-3.563	-5.687	-2.918
Asymp. Sig. (2-tailed)	.033	.152	.440	.000	.000	.004

a. Grouping Variable: perlakuan

Kwetiau kontrol vs Kwetiau subtitusi tepung labu kuning 80%

Test Statistics[a]

	warna	aroma	tekstur	rasa	intsts_rs_manis	overall
Mann-Whitney U	1108.000	1130.500	1196.000	883.500	430.000	801.500
Wilcoxon W	2383.000	2405.500	2471.000	2158.500	1705.000	2076.500
Z	-1.026	-.887	-.386	-2.691	-5.863	-3.248
Asymp. Sig. (2-tailed)	.305	.375	.699	.007	.000	.001

a. Grouping Variable: perlakuan

Kwetiau substitusi tepung labu kuning 60% vs Kwetiau subtitusi tepung labu kuning 70%

Test Statistics[a]

	warna	aroma	tekstur	rasa	intsts_rs_manis	overall
Mann-Whitney U	758.000	1152.000	1232.000	1193.000	1156.000	1083.500
Wilcoxon W	2033.000	2427.000	2507.000	2468.000	2431.000	2358.500
Z	-3.639	-.768	-.133	-.438	-.696	-1.267
Asymp. Sig. (2-tailed)	.000	.443	.894	.661	.486	.205

a. Grouping Variable: perlakuan

Kwetiau substitusi tepung labu kuning 60% vs Kwetiau subtitusi tepung labu kuning 80%

Test Statistics[a]

	warna	aroma	tekstur	rasa	intsts_rs_manis	overall
Mann-Whitney U	936.000	1109.000	1218.500	1139.000	1117.000	1189.000
Wilcoxon W	2211.000	2384.000	2493.500	2414.000	2392.000	2464.000
Z	-2.333	-1.074	-.230	-.833	-.991	-.459
Asymp. Sig. (2-tailed)	.020	.283	.818	.405	.322	.646

a. Grouping Variable: perlakuan

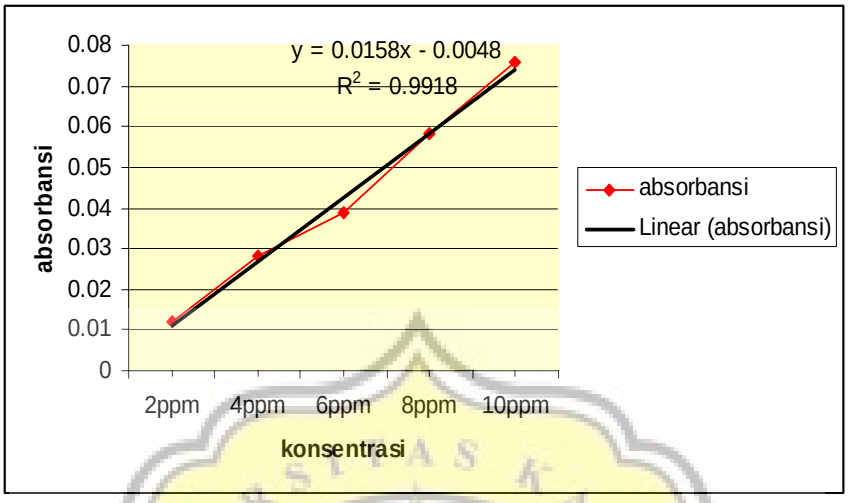
Kwetiau substitusi tepung labu kuning 70% vs Kwetiau subtitusi tepung labu kuning 80%

Test Statistics[a]

	warna	aroma	tekstur	rasa	intsts_rs_manis	overall
Mann-Whitney U	1089.000	1198.000	1204.000	1200.000	1214.000	1136.500
Wilcoxon W	2364.000	2473.000	2479.000	2475.000	2489.000	2411.500
Z	-1.183	-.396	-.338	-.388	-.272	-.887
Asymp. Sig. (2-tailed)	.237	.692	.736	.698	.785	.375

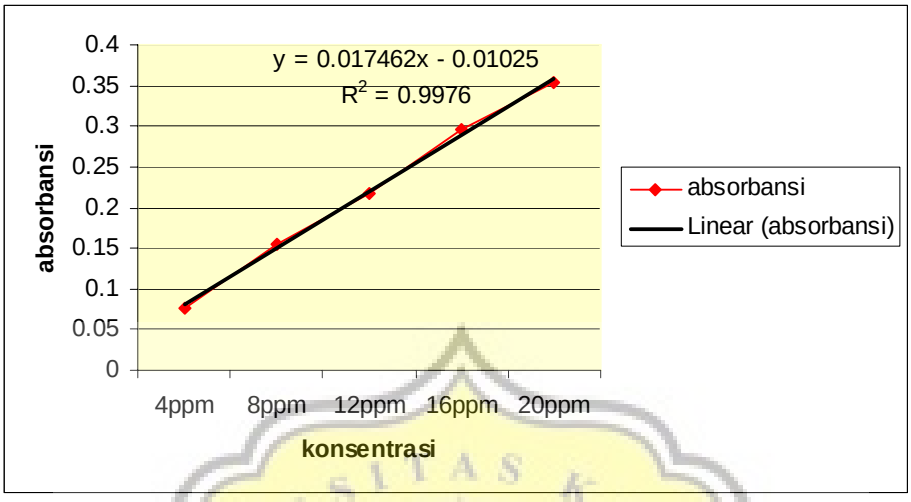
a. Grouping Variable: perlakuan

Lampiran 15. Kurva Standar Vitamin A



Gambar 12. Grafik Kurva Standar Vitamin A

Lampiran 16. Kurva Standar Amilosa



Gambar 13. Grafik Kurva Standar Amilosa

Lampiran 17. Perhitungan Persentase Kecukupan Vitamin A

Tabel. 12 Kadar Vitamin A Kwetiau Kering Instan Pada Berbagai Tingkat Substitusi

Tingkat Substitusi	Kadar Vitamin A (IU) / 100g
0% (kontrol)	30,49
60%	5535,57
70%	6438,70
80%	7543,70

AKG anak-anak (usia 0bl-3th) = 350 RE

AKG anak-anak (usia 4-6 th) = 360 RE

AKG anak-anak (usia 7-9 th) = 400 RE

AKG remaja pria (usia 10-12th) = 500 RE

AKG remaja pria (usia 13-15th) = 600 RE

AKG dewasa pria (usia 16-59th) = 700 RE

AKG pria lanjut usia (usia ≥60th) = 600 RE

AKG wanita (usia 10 th keatas) = 500 RE

Persentase kecukupan vitamin A berdasarkan AKG (Angka Kecukupan Gizi) vitamin A untuk anak-anak, remaja pria, dewasa pria, pria lanjut usia dan wanita :

❖ **Pada tingkat substitusi 0% (kontrol yaitu tanpa substitusi tepung labu kuning)**

Kadar vitamin A dalam 60g kwetiau kering instan = $\frac{60}{100} x\ 30,49$ =18,294 IU

= 1,85 RE

- Persen kecukupan vitamin A anak-anak (usia 0bl-3th) = $\frac{1,85}{350} x\ 100\%$ = 0,53%
- Persen kecukupan vitamin A anak-anak (usia 4-6 th) = $\frac{1,85}{360} x\ 100\%$ = 0,51%
- Persen kecukupan vitamin A anak-anak (usia 7-9 th) = $\frac{1,85}{400} x\ 100\%$ = 0,46%
- Persen kecukupan vitamin A remaja pria (usia 10-12th) = $\frac{1,85}{500} x\ 100\%$ = 0,37%
- Persen kecukupan vitamin A remaja pria (usia 13-15th) = $\frac{1,85}{600} x\ 100\%$ = 0,31%
- Persen kecukupan vitamin A dewasa pria (usia 16-59th) = $\frac{1,85}{700} x\ 100\%$ = 0,26%

- Persen kecukupan vitamin A pria lanjut usia (usia ≥60th) = $\frac{1,85}{600} x\ 100\% = 0,31\%$
- Persen kecukupan vitamin A wanita (usia 10 th keatas) = $\frac{1,85}{500} x\ 100\% = 0,37\%$

❖ **Pada tingkat substitusi 60% tepung labu kuning pada kwetiau kering instan**

Kadar vitamin A dalam 60g kwetiau kering instan = $\frac{60}{100} x\ 5535,57 = 3321,342$ IU

= 335,49 RE

- Persen kecukupan vitamin A anak-anak (usia 0bl-3th) = $\frac{335,49}{350} x\ 100\% = 95,85\%$
- Persen kecukupan vitamin A anak-anak (usia 4-6 th) = $\frac{335,49}{360} x\ 100\% = 93,19\%$
- Persen kecukupan vitamin A anak-anak (usia 7-9 th) = $\frac{335,49}{400} x\ 100\% = 83,87\%$
- Persen kecukupan vitamin A remaja pria (usia 10-12th)= $\frac{335,49}{500} x\ 100\% = 67,10\%$
- Persen kecukupan vitamin A remaja pria (usia 13-15th) = $\frac{335,49}{600} x\ 100\% = 55,92\%$
- Persen kecukupan vitamin A dewasa pria (usia 16-59th)= $\frac{335,49}{700} x\ 100\% = 47,93\%$
- Persen kecukupan vitamin A pria lanjut usia (usia≥60th)= $\frac{335,49}{600} x\ 100\% = 55,92\%$
- Persen kecukupan vitamin A wanita (usia 10 th keatas) = $\frac{335,49}{500} x\ 100\% = 67,10\%$

❖ **Pada tingkat substitusi 70% tepung labu kuning pada kwetiau kering instan**

Kadar vitamin A dalam 60g kwetiau kering instan = $\frac{60}{100} x\ 6438,70 = 3863,22$ IU

= 390,22 RE

- Persen kecukupan vitamin A anak-anak (usia 0bl-3th)= $\frac{390,22}{350} x\ 100\% = 111,49\%$
- Persen kecukupan vitamin A anak-anak (usia 4-6 th)= $\frac{390,22}{360} x\ 100\% = 108,39\%$
- Persen kecukupan vitamin A anak-anak (usia 7-9 th) = $\frac{390,22}{400} x\ 100\% = 97,55\%$

- Persen kecukupan vitamin A remaja pria (usia 10-12th) $= \frac{390,22}{500} x\ 100\% = 78,04\%$
- Persen kecukupan vitamin A remaja pria (usia 13-15th) $= \frac{390,22}{600} x\ 100\% = 65,04\%$
- Persen kecukupan vitamin A dewasa pria (usia 16-59th)$= \frac{390,22}{700} x\ 100\% = 55,75\%$
- Persen kecukupan vitamin A pria lanjut usia (usia≥60th)$= \frac{390,22}{600} x\ 100\% = 65,04\%$
- Persen kecukupan vitamin A wanita (usia 10 th keatas) $= \frac{390,22}{500} x\ 100\% = 78,04\%$

❖ **Pada tingkat substitusi 80% tepung labu kuning pada kwetiau kering instan**

Kadar vitamin A dalam 60g kwetiau kering instan $= \frac{60}{100} x\ 7543,70 = 4526,22$ IU

$= 457,19$ RE

- Persen kecukupan vitamin A anak-anak (usia 0bl-3th)$= \frac{457,19}{350} x\ 100\% = 130,63\%$
- Persen kecukupan vitamin A anak-anak (usia 4-6 th)$= \frac{457,19}{360} x\ 100\% = 127\%$
- Persen kecukupan vitamin A anak-anak (usia 7-9 th) $= \frac{457,19}{400} x\ 100\% = 114,30\%$
- Persen kecukupan vitamin A remaja pria (usia 10-12th) $= \frac{457,19}{500} x\ 100\% = 91,44\%$
- Persen kecukupan vitamin A remaja pria (usia 13-15th) $= \frac{457,19}{600} x\ 100\% = 76,20\%$
- Persen kecukupan vitamin A dewasa pria (usia 16-59th)$= \frac{457,19}{700} x\ 100\% = 65,31\%$
- Persen kecukupan vitamin A pria lanjut usia (usia≥60th)$= \frac{457,19}{600} x\ 100\% = 76,20\%$
- Persen kecukupan vitamin A wanita (usia 10 th keatas) $= \frac{457,19}{500} x\ 100\% = 91,44\%$