

### Lampiran 1. Dokumentasi Formulasi Puding Sedot



**Gambar 1. Persiapan Bahan-bahan yang telah ditimbang**



**Gambar 2. Pembuatan ekstrak jahe**



**Gambar 3. Proses pemasakan puding sedot**



**Gambar 4. Packaging puding ke dalam botol**

## Lampiran 2. Hasil Analisa Proksimat



**LABORATORIUM  
KIMIA DAN MIKROBIOLOGI HASIL PERTANIAN  
JURUSAN TEKNOLOGI PERTANIAN  
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Jl. Palembang-Prabumulih Km.32 Indralaya (Ol) Telp. (0711) 580664

**LAPORAN ANALISA  
No. 73/LABKHP/VIII/2023**

Nama Pemesan : Windi Indah  
 Tanggal Terima : 07 Agustus 2023  
 Tanggal Selesai : 22 Agustus 2023  
 Jumlah Sampel : 8  
 Jenis Analisa : Proksimat (SNI 01-2891-1992)  
 Jenis Sampel : Puding

Kode	Kadar Air (%)	Kadar Abu (%)	Kadar Lemak (%)	Kadar Protein (%)	Kadar Karbohidrat (%)
A1	83,20	0,77	0,14	1,58	14,31
A2	83,49	0,77	0,19	1,83	13,71
B1	77,08	0,79	0,27	1,82	20,04
B2	77,35	0,79	0,23	1,81	19,82
C1	78,18	1,04	0,31	2,30	18,17
C2	78,49	1,15	0,20	2,01	18,15
D1	87,82	0,29	0,66	2,05	9,18
D2	87,84	0,29	0,74	2,01	9,12

Palembang, 22 Agustus 2023  
 Koordinator Teknis Laboratorium,

Hafsa, ST., M.T  
 NIP.198006202001122001

### Lampiran 3. Hasil Uji Normalitas (Shapiro Wilk)

#### Explore

#### Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Perlakuan	8	100.0%	0	0.0%	8	100.0%
Abu	8	100.0%	0	0.0%	8	100.0%
Lemak	8	100.0%	0	0.0%	8	100.0%
Air	8	100.0%	0	0.0%	8	100.0%
Protein	8	100.0%	0	0.0%	8	100.0%
Karbohidrat	8	100.0%	0	0.0%	8	100.0%

#### Descriptives

		Statistic	Std. Error	
Perlakuan	Mean	2.50	.423	
	95% Confidence Interval for Mean			
		Lower Bound	1.50	
		Upper Bound	3.50	
	5% Trimmed Mean	2.50		
	Median	2.50		
	Variance	1.429		
	Std. Deviation	1.195		
	Minimum	1		
	Maximum	4		
	Range	3		
	Interquartile Range	3		
Skewness	.000	.752		

	Kurtosis	-1.456	1.481	
Abu	Mean	.7363	.10936	
	95% Confidence Interval for Mean	Lower Bound	.4776	
		Upper Bound	.9949	
	5% Trimmed Mean	.7381		
	Median	.7800		
	Variance	.096		
	Std. Deviation	.30933		
	Minimum	.29		
	Maximum	1.15		
	Range	.86		
	Interquartile Range	.57		
	Skewness	-.505	.752	
	Kurtosis	-.513	1.481	
	Lemak	Mean	.3425	.08044
95% Confidence Interval for Mean		Lower Bound	.1523	
		Upper Bound	.5327	
5% Trimmed Mean		.3317		
Median		.2500		
Variance		.052		
Std. Deviation		.22752		
Minimum		.14		
Maximum		.74		
Range		.60		
Interquartile Range		.38		
Skewness		1.265	.752	
Kurtosis		-.044	1.481	
Air		Mean	81.6813	1.60115

	95% Confidence Interval for	Lower Bound	77.8951	
	Mean	Upper Bound	85.4674	
	5% Trimmed Mean		81.5947	
	Median		80.8450	
	Variance		20.510	
	Std. Deviation		4.52874	
	Minimum		77.08	
	Maximum		87.84	
	Range		10.76	
	Interquartile Range		9.18	
	Skewness		.452	.752
	Kurtosis		-1.698	1.481
Protein	Mean		1.9263	.07594
	95% Confidence Interval for	Lower Bound	1.7467	
	Mean	Upper Bound	2.1058	
	5% Trimmed Mean		1.9247	
	Median		1.9200	
	Variance		.046	
	Std. Deviation		.21480	
	Minimum		1.58	
	Maximum		2.30	
	Range		.72	
	Interquartile Range		.23	
	Skewness		.194	.752
	Kurtosis		.674	1.481
Karbohidrat	Mean		15.3125	1.57214
	95% Confidence Interval for	Lower Bound	11.5950	
	Mean	Upper Bound	19.0300	

5% Trimmed Mean	15.3939	
Median	16.2300	
Variance	19.773	
Std. Deviation	4.44669	
Minimum	9.12	
Maximum	20.04	
Range	10.92	
Interquartile Range	9.09	
Skewness	-.498	.752
Kurtosis	-1.448	1.481

### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Perlakuan	.162	8	.200*	.897	8	.274
Abu	.293	8	.041	.867	8	.142
Lemak	.307	8	.026	.785	8	.020
Air	.259	8	.120	.846	8	.086
Protein	.173	8	.200*	.954	8	.748
Karbohidrat	.238	8	.200*	.870	8	.149

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

a. Lilliefors Significance Correction

### Dasar Pengambilan Keputusan

- Jika nilai signifikansi  $>0,05$ , maka data penelitian berdistribusi normal
- Jika nilai signifikansi  $<0,05$ , maka data penelitian tidak berdistribusi normal

### Hasil Uji Normalitas

- Kadar Abu → berdistribusi normal
- Kadar Lemak → tidak berdistribusi normal
- Kadar Air → berdistribusi normal
- Kadar Protein → berdistribusi normal
- Kadar Karbohidrat → berdistribusi normal



#### Lampiran 4. Hasil Olah Data Uji One Way Anova (Uji Anova) dan Uji Lanjut (*Post Hoc Test*)

##### Konsep Uji Anova

- Dalam uji anova ada yang namanya *Uji Lanjut (Post Hoc Test)*, dimana uji tersebut bertujuan untuk mengetahui perbedaan tiap kelompok secara nyata, tapi penggunaan, tapi penggunaan *Uji Lanjut (Post Hoc Test)* sendiri bias dilakukan jika dalam uji Anova menghasilkan perbedaan secara signifikan antar kelompok
- Data harus berdistribusi normal, dikarenakan uji normalitas data merupakan syarat wajib
- Varian data homogen, meskipun uji homogenitas bukan syarat mutlak yang harus terpenuhi, tapi penggunaan uji homogenitas dalam One Way Anova akan berdampak akan berdampak pada pemilihan Uji Lanjut (*Post Hoc Test*). Apabila asumsi uji homogenitas terpenuhi maka bisa masuk ke dalam Uji Lanjut Duncan sedangkan jika asumsi uji homogenitas tidak terpenuhi maka bisa menggunakan Uji lanjut *Games-Howell*

##### Kriteria Pengujian Uji Homogenitas

- Nilai Sig. (P Value) Based on Mean  $< 0,05$  berkesimpulan Varian Data Tidak Homogen (Uji Homogenitas tidak terpenuhi)
- Nilai Sig. (P Value) Based on Mean  $> 0,05$  berkesimpulan Varian Data Homogen (Uji Homogenitas terpenuhi)

##### Kriteria Pengujian One Way ANOVA

- **Nilai Sig. (P Value)  $< 0,05$  berkesimpulan ada perbedaan secara signifikan**
- Nilai Sig. (P Value)  $> 0,05$  berkesimpulan tidak ada perbedaan secara signifikan

##### Kriteria Pengujian Uji Lanjut dalam One Way ANOVA

- Nilai Sig. (P Value)  $< 0,05$  berkesimpulan ada perbedaan secara nyata
- Nilai Sig. (P Value)  $> 0,05$  berkesimpulan tidak ada perbedaan secara nyata

#### KADAR ABU

ONEWAY Abu BY Perlakuan

/STATISTICS HOMOGENEITY

/MISSING ANALYSIS.

## Oneway

### Descriptives

Abu

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
A	2	.7700	.00000	.00000	.7700	.7700	.77	.77
B	2	.7900	.00000	.00000	.7900	.7900	.79	.79
C	2	1.0950	.07778	.05500	.3962	1.7938	1.04	1.15
D	2	.2900	.00000	.00000	.2900	.2900	.29	.29
Total	8	.7363	.30933	.10936	.4776	.9949	.29	1.15

### Warnings

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

### ANOVA

Abu

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.664	3	.221	146.278	.000
Within Groups	.006	4	.002		
Total	.670	7			

### Kriteria Pengujian One Way ANOVA

- Nilai Sig. (*P Value*) < 0,05 berkesimpulan ada perbedaan secara signifikan

## Post Hoc Tests

### Multiple Comparisons

Dependent Variable: Abu

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Games-Howell	A	B	-.02000	.00000	.	-.0200	-.0200
		C	-.32500	.05500	.193	-1.6013	.9513
		D	.48000	.00000	.	.4800	.4800
	B	A	.02000	.00000	.	.0200	.0200
		C	-.30500	.05500	.206	-1.5813	.9713
		D	.50000	.00000	.	.5000	.5000
	C	A	.32500	.05500	.193	-.9513	1.6013
		B	.30500	.05500	.206	-.9713	1.5813
		D	.80500	.05500	.079	-.4713	2.0813
	D	A	-.48000	.00000	.	-.4800	-.4800
		B	-.50000	.00000	.	-.5000	-.5000
		C	-.80500	.05500	.079	-2.0813	.4713

### Homogeneous Subsets

		Abu			
		Subset for alpha = 0.05			
	Perlakuan	N	1	2	3
Duncan <sup>a</sup>	D	2	.2900		
	A	2		.7700	
	B	2		.7900	
	C	2			1.0950
	Sig.			1.000	.634

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

## KADAR AIR

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
A	2	83.3450	.20506	.14500	81.5026	85.1874	83.20	83.49
B	2	77.2150	.19092	.13500	75.4997	78.9303	77.08	77.35
C	2	78.3350	.21920	.15500	76.3655	80.3045	78.18	78.49
D	2	87.8300	.01414	.01000	87.7029	87.9571	87.82	87.84
Total	8	81.6813	4.52874	1.60115	77.8951	85.4674	77.08	87.84

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ONEWAY Air BY Perlakuan
  /STATISTICS HOMOGENEITY
  /MISSING ANALYSIS
  /POSTHOC=DUNCAN GH ALPHA(0.05) .

```

### Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Air	Based on Mean	1831325964782 5856000000000 0.000	3	4	.000
	Based on Median	1831325964782 5856000000000 0.000	3	4	.000

Based on Median and with adjusted df	1831325964782 5856000000000 0.000	3	2.000	.000
Based on trimmed mean	1831325964782 5856000000000 0.000	3	4	.000

### Kriteria Pengujian Uji Homogenitas

- Nilai Sig. (P Value) Based on Mean < 0,05 berkesimpulan Varian Data Tidak Homogen (Uji Homogenitas tidak terpenuhi)

### ANOVA

Air

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	143.440	3	47.813	1508.901	.000
Within Groups	.127	4	.032		
Total	143.567	7			

### Kriteria Pengujian One Way ANOVA

- Nilai Sig. (P Value) < 0,05 berkesimpulan ada perbedaan secara signifikan

### Post Hoc Tests

#### Multiple Comparisons

Dependent Variable: Air

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Games-Howell	A	B	6.13000*	.19812	.003	4.7495	7.5105
		C	5.01000*	.21225	.005	3.5321	6.4879

	D	-4.48500*	.14534	.037	-7.7779	-1.1921
B	A	-6.13000*	.19812	.003	-7.5105	-4.7495
	C	-1.12000	.20555	.081	-2.5746	.3346
	D	-10.61500*	.13537	.014	-13.6708	-7.5592
C	A	-5.01000*	.21225	.005	-6.4879	-3.5321
	B	1.12000	.20555	.081	-.3346	2.5746
	D	-9.49500*	.15532	.018	-13.0245	-5.9655
	A	4.48500*	.14534	.037	1.1921	7.7779
D	B	10.61500*	.13537	.014	7.5592	13.6708
	C	9.49500*	.15532	.018	5.9655	13.0245

\*. The mean difference is significant at the 0.05 level.

#### **Kriteria Pengujian Uji Lanjut dalam One Way ANOVA**

- Nilai Sig. (P Value) < 0,05 berkesimpulan ada perbedaan secara nyata
- Nilai Sig. (P Value) > 0,05 berkesimpulan tidak ada perbedaan secara nyata

## KADAR PROTEIN

### Oneway

#### Descriptives

Protein	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
A	2	1.7050	.17678	.12500	.1167	3.2933	1.58	1.83
B	2	1.8150	.00707	.00500	1.7515	1.8785	1.81	1.82
C	2	2.1550	.20506	.14500	.3126	3.9974	2.01	2.30
D	2	2.0300	.02828	.02000	1.7759	2.2841	2.01	2.05
Total	8	1.9263	.21480	.07594	1.7467	2.1058	1.58	2.30

#### Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Protein	Based on Mean	1657072864618 3417000000000 00000.000	3	4	.000
	Based on Median	1657072864618 3417000000000 00000.000	3	4	.000
	Based on Median and with adjusted df	1657072864618 3417000000000 00000.000	3	1.000	.000
	Based on trimmed mean	1657072864618 3417000000000 00000.000	3	4	.000

#### Kriteria Pengujian Uji Homogenitas

- Nilai Sig. (P Value) Based on Mean < 0,05 berkesimpulan Varian Data Tidak Homogen (Uji Homogenitas tidak terpenuhi)

## ANOVA

Protein

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.249	3	.083	4.474	.091
Within Groups	.074	4	.019		
Total	.323	7			

### Kriteria Pengujian One Way ANOVA

- Nilai Sig. (*P Value*) > 0,05 berkesimpulan tidak ada perbedaan secara signifikan

### Post Hoc Tests

#### Multiple Comparisons

Dependent Variable: Protein

	(I) Perlakuan	(J) Perlakuan	Mean Difference		Sig.	95% Confidence Interval	
			(I-J)	Std. Error		Lower Bound	Upper Bound
Games-Howell	A	B	-.11000	.12510	.828	-2.9896	2.7696
		C	-.45000	.19144	.330	-1.8092	.9092
		D	-.32500	.12659	.408	-2.9212	2.2712
	B	A	.11000	.12510	.828	-2.7696	2.9896
		C	-.34000	.14509	.451	-3.6866	3.0066
		D	-.21500	.02062	.089	-.5767	.1467
	C	A	.45000	.19144	.330	-.9092	1.8092
		B	.34000	.14509	.451	-3.0066	3.6866
		D	.12500	.14637	.837	-2.9698	3.2198
	D	A	.32500	.12659	.408	-2.2712	2.9212



B	.21500	.02062	.089	-.1467	.5767
C	-.12500	.14637	.837	-3.2198	2.9698

**Kriteria Pengujian Uji Lanjut dalam One Way ANOVA**

- Nilai Sig. (P Value)  $< 0,05$  berkesimpulan ada perbedaan secara nyata
- Nilai Sig. (P Value)  $> 0,05$  berkesimpulan tidak ada perbedaan secara nyata

## KADAR KARBOHIDRAT

### Oneway

#### Descriptives

Karbohidrat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
A	2	14.0100	.42426	.30000	10.1981	17.8219	13.71	14.31
B	2	19.9300	.15556	.11000	18.5323	21.3277	19.82	20.04
C	2	18.1600	.01414	.01000	18.0329	18.2871	18.15	18.17
D	2	9.1500	.04243	.03000	8.7688	9.5312	9.12	9.18
Total	8	15.3125	4.44669	1.57214	11.5950	19.0300	9.12	20.04

#### Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Karbohidrat	Based on Mean	4434664349798 3860000000000 000.000	3	4	.000
	Based on Median	4434664349798 3860000000000 000.000	3	4	.000
	Based on Median and with adjusted df	4434664349798 3870000000000 000.000	3	2.000	.000
	Based on trimmed mean	4434664349798 3860000000000 000.000	3	4	.000

### Kriteria Pengujian Uji Homogenitas

- Nilai Sig. (P Value) Based on Mean < 0,05 berkesimpulan Varian Data Tidak Homogen (Uji Homogenitas tidak terpenuhi)

### ANOVA

Karbohidrat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	138.205	3	46.068	893.663	.000
Within Groups	.206	4	.052		
Total	138.411	7			

### Kriteria Pengujian One Way ANOVA

- Nilai Sig. (*P Value*) < 0,05 berkesimpulan ada perbedaan secara signifikan

### Post Hoc Tests

#### Multiple Comparisons

Dependent Variable: Karbohidrat

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Games-Howell	A	B	-5.92000*	.31953	.034	-10.3160	-1.5240
		C	-4.15000	.30017	.083	-11.0765	2.7765
		D	4.86000	.30150	.069	-1.7961	11.5161
	B	A	5.92000*	.31953	.034	1.5240	10.3160
		C	1.77000	.11045	.070	-.6893	4.2293
		D	10.78000*	.11402	.007	8.8681	12.6919
C	A	4.15000	.30017	.083	-2.7765	11.0765	
	B	-1.77000	.11045	.070	-4.2293	.6893	

	D	9.01000*	.03162	.001	8.5429	9.4771
D	A	-4.86000	.30150	.069	-11.5161	1.7961
	B	-10.78000*	.11402	.007	-12.6919	-8.8681
	C	-9.01000*	.03162	.001	-9.4771	-8.5429

\*. The mean difference is significant at the 0.05 level.

### Kriteria Pengujian Uji Lanjut dalam One Way ANOVA

- Nilai Sig. (P Value) < 0,05 berkesimpulan ada perbedaan secara nyata
- Nilai Sig. (P Value) > 0,05 berkesimpulan tidak ada perbedaan secara nyata

## Lampiran 5. Hasil Uji Data Kruskal-Wallis

### KADAR LEMAK

#### Descriptives

Lemak

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
A	2	.1650	.03536	.02500	-.1527	.4827	.14	.19
B	2	.2500	.02828	.02000	-.0041	.5041	.23	.27
C	2	.2550	.07778	.05500	-.4438	.9538	.20	.31
D	2	.7000	.05657	.04000	.1918	1.2082	.66	.74
Total	8	.3425	.22752	.08044	.1523	.5327	.14	.74

NPAR TESTS

/K-W=Lemak BY Perlakuan(1 4)

/STATISTICS DESCRIPTIVES

/MISSING ANALYSIS.

#### NPar Tests

##### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Lemak	8	.3425	.22752	.14	.74
Perlakuan	8	2.50	1.195	1	4

#### Kruskal-Wallis Test

##### Ranks

	Perlakuan	N	Mean Rank
Lemak	A	2	1.50
	B	2	4.50
	C	2	4.50
	D	2	7.50
	Total	8	

### Test Statistics<sup>a,b</sup>

	Lemak
Kruskal-Wallis H	6.000
df	3
Asymp. Sig.	.112

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

Jika,  $\text{asyp,Sig.} > 0,05$  berarti tidak ada perbedaan nyata (tidak perlu dilakukan uji lanjutan karena tidak ada perbedaan