

## 7. LAMPIRAN

### Lampiran 1. Syarat Mutu Kembang Gula Lunak (SNI 2008)

No	Kriteria Uji	Satuan	Persyaratan	
			Bukan <i>Jelly</i>	<i>Jelly</i>
1	Keadaan			
1.1.	Bau	-	Normal	Normal
1.2.	Rasa	-	Normal (sesuai label)	Normal (sesuai label)
2	Kadar air	% fraksi massa	Maks. 7,5	Maks. 20,0
3	Kadar abu	% fraksi massa	Maks. 2,0	Maks. 3,0
4	Gula reduksi (dihitung sebagai gula inversi)	% fraksi massa	Maks. 20,0	Maks 25,-



## Lampiran 2. Perhitungan Rendemen Tepung Kolang-Kaling

Rendemen tepung kolang-kaling :

$$\begin{aligned}\text{Tepung kolang-kaling} &= \frac{A}{B} \times 100\% \\ &= \frac{300,2 \text{ g}}{2700 \text{ g}} \times 100\% \\ &= 11,185\%\end{aligned}$$



### Lampiran 3. Tabel Normalitas

a. Uji normalitas kadar air tepung kolang-kaling

**Tests of Normality**

waktu_pengeringan		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
kadar_air	7 jam	,196	3	.	,996	3	,878
	8 jam	,253	3	.	,964	3	,637
	9 jam	,194	3	.	,996	3	,886

a. Lilliefors Significance Correction

b. Uji normalitas kekuatan gel tepung kolang-kaling

**Tests of Normality**

konsentrasi		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
kekuatan_gel	kontrol	,135	6	,200*	,990	6	,989
	T30	,275	6	,174	,894	6	,342
	T40	,304	6	,087	,838	6	,125
	T50	,177	6	,200*	,936	6	,630

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

a. Lilliefors Significance Correction

c. Uji normalitas analisa fisik *hardness & gumminess* permen *jelly kunyit*

**Tests of Normality**

Konsentrasi		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hardness	kontrol	,219	6	,200*	,931	6	,591
	T30	,170	6	,200*	,984	6	,968
	T40	,184	6	,200*	,922	6	,521
	T50	,209	6	,200*	,962	6	,837
Gumminess	kontrol	,156	6	,200*	,963	6	,845
	T30	,240	6	,200*	,895	6	,343
	T40	,198	6	,200*	,973	6	,913
	T50	,214	6	,200*	,914	6	,461

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

a. Lilliefors Significance Correction

d. Uji normalitas analisa kimia permen *jelly* kunyit

**Tests of Normality**

Konsentrasi		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Kadar_air	kontrol	,147	6	,200*	,970	6	,891
	T30	,225	6	,200*	,885	6	,294
	T40	,174	6	,200*	,972	6	,906
	T50	,195	6	,200*	,917	6	,483
Kadar_abu	kontrol	,254	6	,200*	,948	6	,726
	T30	,194	6	,200*	,891	6	,324
	T40	,286	6	,136	,892	6	,330
	T50	,279	6	,159	,836	6	,122
pH	kontrol	,185	6	,200*	,958	6	,804
	T30	,294	6	,115	,899	6	,368
	T40	,168	6	,200*	,981	6	,959
	T50	,237	6	,200*	,927	6	,554
Gula_pereduksi	kontrol	,247	6	,200*	,858	6	,184
	T30	,232	6	,200*	,907	6	,414
	T40	,196	6	,200*	,965	6	,861
	T50	,226	6	,200*	,894	6	,342
Sakarosa	kontrol	,243	6	,200*	,944	6	,688
	T30	,247	6	,200*	,888	6	,310
	T40	,262	6	,200*	,885	6	,293
	T50	,198	6	,200*	,951	6	,745
Antioksidan	kontrol	,284	6	,141	,835	6	,120
	T30	,207	6	,200*	,889	6	,315
	T40	,304	6	,088	,885	6	,291
	T50	,225	6	,200*	,918	6	,493

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

a. Lilliefors Significance Correction

## Lampiran 4. Uji One Way Anova dan Duncan

### a. One Way Anova uji Kimia

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar_air	Between Groups	51,397	3	17,132	22,372	,000
	Within Groups	15,316	20	,766		
	Total	66,712	23			
Kadar_abu	Between Groups	,046	3	,015	12,237	,000
	Within Groups	,025	20	,001		
	Total	,070	23			
pH	Between Groups	2,493	3	,831	143,435	,000
	Within Groups	,116	20	,006		
	Total	2,608	23			
Gula_pereduksi	Between Groups	172,273	3	57,424	97,315	,000
	Within Groups	11,802	20	,590		
	Total	184,075	23			
Sakarosa	Between Groups	132,429	3	44,143	44,358	,000
	Within Groups	19,903	20	,995		
	Total	152,332	23			
Antioksidan	Between Groups	51,669	3	17,223	85,375	,000
	Within Groups	4,035	20	,202		
	Total	55,704	23			

### b. Uji Duncan Kadar Air

Kadar\_air

Duncan<sup>a</sup>

Konsentrasi	N	Subset for alpha = .05		
		1	2	3
kontrol	6	7,0067		
T30	6	7,6617		
T40	6		9,4117	
T50	6			10,7283
Sig.		,210	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

## c. Uji Duncan Kadar Abu

**Kadar\_abu**

Duncan<sup>a</sup>

Konsentrasi	N	Subset for alpha = .05	
		1	2
kontrol	6	,0883	
T30	6	,1083	
T40	6	,1250	
T50	6		,2033
Sig.		,103	1,000

Means for groups in homogeneous subsets are displayed.

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

## d. Uji Duncan pH

**pH**

Duncan<sup>a</sup>

Konsentrasi	N	Subset for alpha = .05	
		1	2
T50	6	3,0567	
T40	6	3,1383	
T30	6		3,7117
kontrol	6		3,7650
Sig.		,078	,239

Means for groups in homogeneous subsets are displayed.

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

## e. Uji Duncan Gula pereduksi

**Gula\_pereduksi**

Duncan<sup>a</sup>

Konsentrasi	N	Subset for alpha = .05		
		1	2	3
kontrol	6	7,3983		
T30	6	7,5500		
T40	6		10,1800	
T50	6			14,0117
Sig.		,736	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

## f. Uji Duncan Sakarosa

**Sakarosa**

Duncan<sup>a</sup>

Konsentrasi	N	Subset for alpha = .05		
		1	2	3
kontrol	6	27,6016		
T30	6		29,2729	
T40	6			32,9261
T50	6			33,0408
Sig.		1,000	1,000	,844

Means for groups in homogeneous subsets are displayed.

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

## g. Uji Duncan Antioksidan

**Antioksidan**

Duncan<sup>a</sup>

Konsentrasi	N	Subset for alpha = .05			
		1	2	3	4
kontrol	6	3,6183			
T30	6		4,3867		
T40	6			6,5800	
T50	6				7,1383
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.

## h. Uji Anova Tekstur

**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
Hardness	Between Groups	292603,7	3	97534,555	57,973	,000
	Within Groups	33648,104	20	1682,405		
	Total	326251,8	23			
Gumminess	Between Groups	4017,191	3	1339,064	69,033	,000
	Within Groups	387,950	20	19,397		
	Total	4405,141	23			

i. Uji Duncan *Hardness***Hardness**Duncan<sup>a</sup>

Konsentrasi	N	Subset for alpha = .05			
		1	2	3	4
T50	6	286,1017			
T40	6		439,8083		
T30	6			521,5517	
kontrol	6				579,8767
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.

j. Uji Duncan *Gumminess***Gumminess**Duncan<sup>a</sup>

Konsentrasi	N	Subset for alpha = .05	
		1	2
T50	6	128,1667	
T40	6	129,3833	
kontrol	6		152,1650
T30	6		156,7067
Sig.		,638	,089

Means for groups in homogeneous subsets are displayed.

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

## k. Uji Anova Kekuatan Gel

**ANOVA**

kekuatan\_gel

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	20774,192	3	6924,731	783,162	,000
Within Groups	176,840	20	8,842		
Total	20951,032	23			



## 1. Uji Duncan Kekuatan Gel

**kekuatan\_gel**Duncan<sup>a</sup>

konsentrasi	N	Subset for alpha = .05			
		1	2	3	4
T50	6	23,5530			
T40	6		34,9094		
T30	6			59,5112	
kontrol	6				100,2795
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.

## m. Uji Anova Kadar Air Tepung

**ANOVA**

kadar\_air

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6,848	2	3,424	340,509	,000
Within Groups	,060	6	,010		
Total	6,908	8			

## n. Uji Duncan Kadar Air Tepung

**kadar\_air**Duncan<sup>a</sup>

waktu_pengeringan	N	Subset for alpha = .05		
		1	2	3
8 jam	3	6,0533		
9 jam	3		6,6700	
7 jam	3			8,1333
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

## Lampiran 5. Halaman Pengesahan



### HALAMAN PENGESAHAN

Judul Tugas Akhir: : Potensi Tepung Kolang Kaling (*Arenga pinnata* Merr.) Sebagai Gelling Agent pada Karakter Fisikokimia Permen Jelly Kunyit

Diajukan oleh : Monica Rossy Kusumastuti

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Tanggal disetujui : 28 Juni 2022

Telah setuju oleh

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