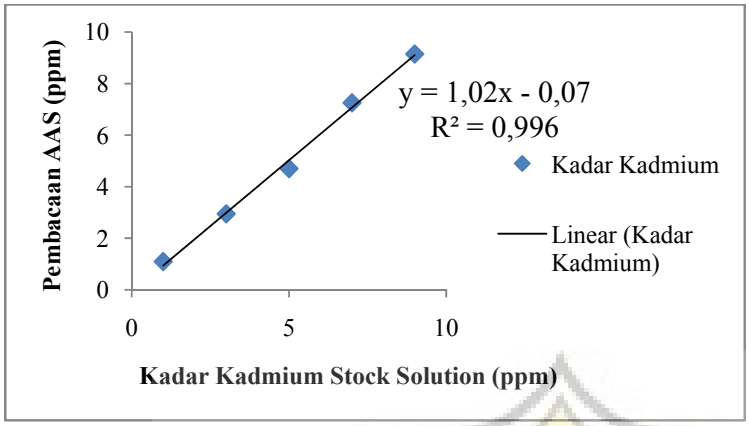
Perpustakaan Unika

7. LAMPIRAN

Lampiran 1. Kurva standart kadmium



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Lampiran 2. Uji Normalitas Data (Kolmogorov-Smirnov)

Normalitas Data Penyerapan Kadmium pada Sampel

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
soluble	,112	90	,007	,926	90	,000
insoluble	,073	90	,200*	,984	90	,349
cd	,088	90	,084	,950	90	,002

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

a. Lilliefors Significance Correction

Normalitas Data Penyerapan Kadmium pada Kontrol

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Soluble	.149	30	.090	.942	30	.100
Insoluble	.105	30	.200*	.969	30	.506
Total	.099	30	.200*	.969	30	.507

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

a. Lilliefors Significance Correction

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Normalitas Data Kadar Serat Pangan pada Sampel

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ADF	,170	90	,000	,915	90	,000
TDF	,274	90	,000	,806	90	,000
serat_larut	,281	90	,000	,739	90	,000

a. Lilliefors Significance Correction

Normalitas Data Kadar Serat Pangan pada Kontrol

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Larut	.160	15	.200*	.949	15	.506
Tidak_Larut	.121	15	.200*	.961	15	.718
Total	.155	15	.200*	.924	15	.222

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

a. Lilliefors Significance Correction

Lampiran 3. Uji Post Hoc – Duncan

Uji Post Hoc Penyerapan Kadmium

cd

Duncan[a,b]

konsentrasi	N	Subset 1	Subset 2	Subset 3
10%	30	81,354355		
15%	30		87,441000	
20%	30			90,955887
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 33,067.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

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cd

Duncan[a,b]

suhu	N	Subset 1	2	3
170 C	30	81,055390		
160 C	30		87,740097	
150 C	30			90,955754
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 33,067.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

soluble

Duncan[a,b]

konsentrasi	N	Subset 1
10%	30	13,078426
15%	30	14,260917
20%	30	14,548919
Sig.		,284

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 24,563.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

soluble

Duncan[a,b]

suhu	N	Subset 1	2
150 C	30	11,793822	
160 C	30		14,434043
170 C	30		15,660397
Sig.		1,000	,341

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 24,563.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

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insoluble

Duncan[a,b]

konsentrasi	N	Subset 1	Subset 2	Subset 3
10%	30	68,275928		
15%	30		72,698937	
20%	30			76,406967
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 28,014.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

insoluble

Duncan[a,b]

suhu	N	Subset 1	Subset 2	Subset 3
170 C	30	65,281089		
160 C	30		73,131844	
150 C	30			78,968899
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 28,014.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

Uji Post Hoc Kadar Serat Pangan

tdf

Duncan[a,b]

proporsi	N	Subset 1	Subset 2
"10%"	15	25,5014	
"15%"	15	27,1605	
"20%"	15		29,3863
Sig.		,071	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 5,954.

a. Uses Harmonic Mean Sample Size = 15,000.

b. Alpha = ,05.

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tdf

Duncan[a,b]

suhu	N	Subset 1
"170 C"	15	26,6190
"150 C"	15	27,3493
"160 C"	15	28,0799
Sig.		,130

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 5,954.

a. Uses Harmonic Mean Sample Size = 15,000.

b. Alpha = ,05.

adf

Duncan[a,b]

proporsi	N	Subset 1
"10%"	15	16,5933
"20%"	15	17,0733
"15%"	15	17,1067
Sig.		,257

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 1,325.

a. Uses Harmonic Mean Sample Size = 15,000.

b. Alpha = ,05.

adf

Duncan[a,b]

suhu	N	Subset 1
"150 C"	15	16,7200
"160 C"	15	16,9333
"170 C"	15	17,1200
Sig.		,377

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 1,325.

a. Uses Harmonic Mean Sample Size = 15,000.

b. Alpha = ,05.

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serat_larut

Duncan[a,b]

proporsi	N	Subset 1	Subset 2
"10%"	15	8,9080	
"15%"	15	10,0539	
"20%"	15		12,3129
Sig.		,211	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 6,060.

a. Uses Harmonic Mean Sample Size = 15,000.

b. Alpha = ,05.

serat_larut

Duncan[a,b]

suhu	N	Subset 1
"170 C"	15	9,4990
"150 C"	15	10,6293
"160 C"	15	11,1465
Sig.		,091

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 6,060.

a. Uses Harmonic Mean Sample Size = 15,000.

b. Alpha = ,05.

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Lampiran 4. Korelasi Pengaruh Suhu Pemanggangan dan Proporsi Tepung Kacang Hijau Terhadap Penyerapan Kadmium

Correlations

			konsentrasi	suhu	soluble	insoluble	cd
Spearman's rho	konsentrasi	Correlation Coefficient	1,000	,000	,100	,420**	,528**
		Sig. (2-tailed)	.	1,000	,351	,000	,000
		N	90	90	90	90	90
	suhu	Correlation Coefficient	,000	1,000	,314**	-,656**	-,470**
		Sig. (2-tailed)	1,000	.	,003	,000	,000
		N	90	90	90	90	90
	soluble	Correlation Coefficient	,100	,314**	1,000	-,295**	,224*
		Sig. (2-tailed)	,351	,003	.	,005	,034
		N	90	90	90	90	90
	insoluble	Correlation Coefficient	,420**	-,656**	-,295**	1,000	,827**
		Sig. (2-tailed)	,000	,000	,005	.	,000
		N	90	90	90	90	90
	cd	Correlation Coefficient	,528**	-,470**	,224*	,827**	1,000
		Sig. (2-tailed)	,000	,000	,034	,000	.
		N	90	90	90	90	90

**. Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

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Lampiran 5. Regresi dan Korelasi Penyerapan Kadmium dan Serat Pangan

ANOVA[b]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	170,284	1	170,284	7,909	,026[a]
	Residual	150,717	7	21,531		
	Total	321,000	8			

a. Predictors: (Constant), serat_pangan

b. Dependent Variable: penyerapan_Cd

Correlations

			serat_pangan	penyerapan_Cd
Spearman's rho	serat_pangan	Correlation Coefficient	1,000	,733*
		Sig. (2-tailed)	.	,025
		N	9	9
	penyerapan_Cd	Correlation Coefficient	,733*	1,000
		Sig. (2-tailed)	,025	.
		N	9	9

*. Correlation is significant at the 0.05 level (2-tailed).

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Lampiran 6. Tabel dan Perhitungan Kadar Protein pada Cookies Kacang Hijau dengan Perlakuan Terbaik (Proporsi 15%)

	Proporsi terbaik 15 : 85 (gram)	Bahan baku (%)	Protein pada bahan (%)	Protein pada cookies mentah (%)
Bahan Utama :				
Tepung Terigu	191	42	12	5,46
Tepung Kacang Hijau	34	7,4	24	1,1
Bahan Cream :				
Shortening	64	14	-	-
Gula halus	130	28	-	-
Garam	2,1	0,4	-	-
Sodium bikarbonat	2,5	0,5	-	-
Air	16	3,5	-	-
Kuning Telur	18	4	15	0,675
Total	**457,6**	**100**		**7,235**

Keterangan:
Dari satu adonan dapat dibagi menjadi 100 keping cookies

% Protein dalam 1 keping cookies mentah:
Dari Tepung Terigu:
$\frac{12}{42}$ x 191 ÷ 100 = 5,46%

Dari Tepung Kacang Hijau:
$\frac{24}{7,4}$ x 34 ÷ 100 = 1,1%

Dari Telur:
$\frac{15}{4}$ x 18 ÷ 100 = 0,675%