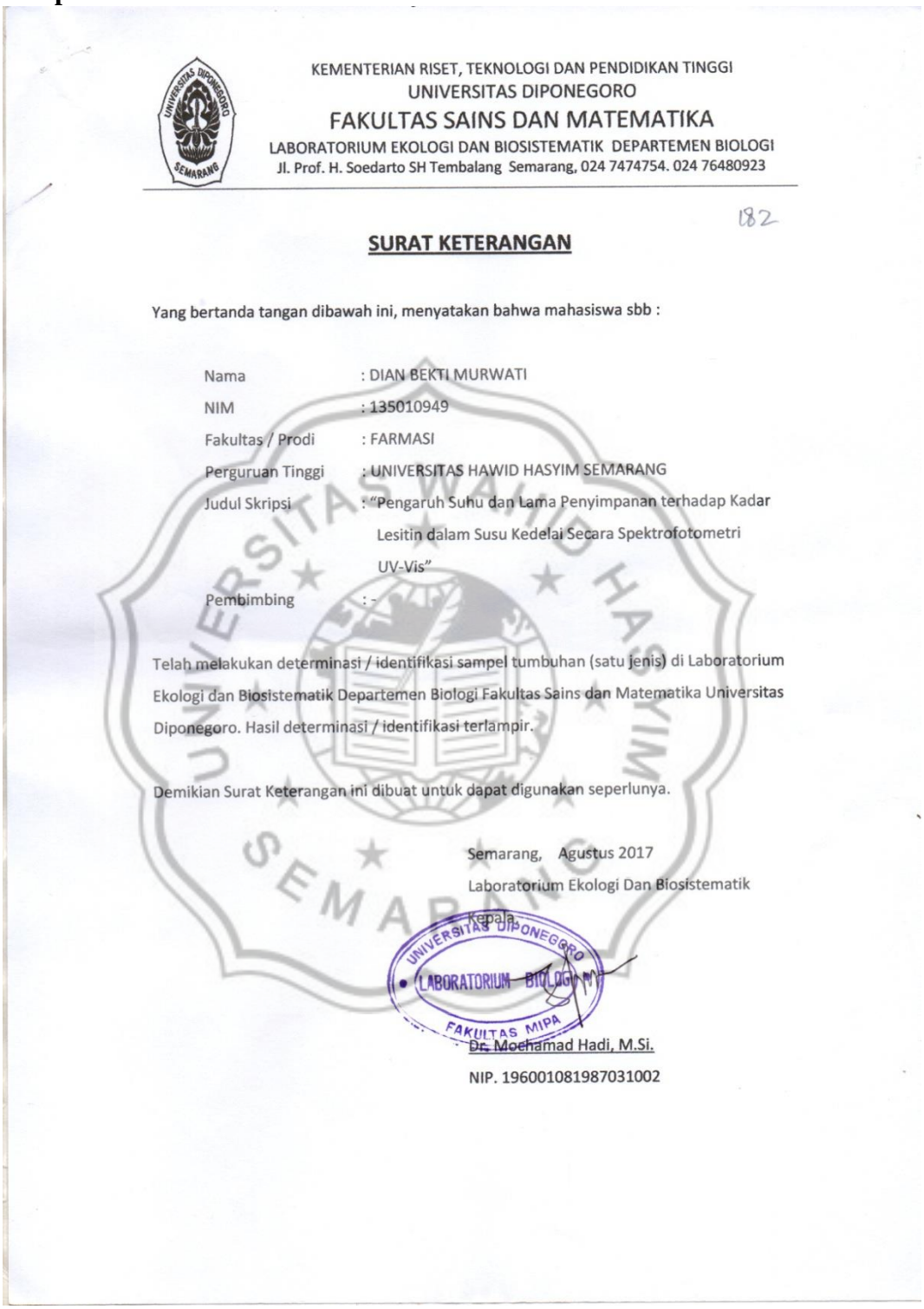
Lampiran 1. Hasil Determinasi Tanaman Kedelai



KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
UNIVERSITAS DIPONEGORO
FAKULTAS SAINS DAN MATEMATIKA
LABORATORIUM EKOLOGI DAN BIOSISTEMATIK DEPARTEMEN BIOLOGI
Jl. Prof. H. Soedarto SH Tembalang Semarang, 024 7474754. 024 76480923

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SURAT KETERANGAN

Yang bertanda tangan dibawah ini, menyatakan bahwa mahasiswa sbb :

Nama	: DIAN BEKTI MURWATI
NIM	: 135010949
Fakultas / Prodi	: FARMASI
Perguruan Tinggi	: UNIVERSITAS HAWID HASYIM SEMARANG
Judul Skripsi	: "Pengaruh Suhu dan Lama Penyimpanan terhadap Kadar Lesitin dalam Susu Kedelai Secara Spektrofotometri UV-Vis"
Pembimbing	: -

Telah melakukan determinasi / identifikasi sampel tumbuhan (satu jenis) di Laboratorium Ekologi dan Biosistematik Departemen Biologi Fakultas Sains dan Matematika Universitas Diponegoro. Hasil determinasi / identifikasi terlampir.

Demikian Surat Keterangan ini dibuat untuk dapat digunakan seperlunya.

Semarang, Agustus 2017
Laboratorium Ekologi Dan Biosistematik
Kepala,

UNIVERSITAS DIPONEGORO
LABORATORIUM BIOLOGI
FAKULTAS MIPA

Dr. Mochamad Hadi, M.Si.
NIP. 196001081987031002

Lampiran 1. Lanjutan...

KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
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LABORATORIUM EKOLOGI DAN BIOSISTEMATIK DEPARTEMEN BIOLOGI
Jl. Prof. H. Soedarto SH Tembalang Semarang, 024 7474754. 024 76480923

HASIL DETERMINASI / IDENTIFIKASI

KLASIFIKASI

Kingdom	: Plantae
Sub kingdom	: Tracheobionta (tumbuhan berpembuluh)
Super divisi	: Spermatophyta (tumbuhan menghasilkan biji)
Divisi	: Magnoliophyta (tumbuhan berbunga)
Class	: Magnoliopsida / Dicotyledoneae (tumbuhan berkeping dua)
Sub class	: Rosidae
Ordo	: Fabales
Famili	: Fabaceae = Papilionaceae
Genus	: *Soya*
Species	: *Soya max* Piper. (Kedelai)
Sinonim	: *Glycine soya* S. & Z. *Glycine max* Merr.

IDENTIFIKASI / DETERMINASI

1b, 2b, 3b, 4b, 6b, 7b, 9b, 10b, 11b, 12b, 13b, 14a, 15b, ...
Golongan 9. Tumbuhan dengan daun majemuk tersebar.... 197b, 208b, 219b, 220b, 224b, 225b, 227b, 229b, 230b, 234a, ... Famili 60. Papilionaceae (Fabaceae) .....
1b, 5a, 6b, 7b, 9b, 10b, 11b, 12b, 13b, 15b, ... Genus 12. *Soya* .....
Species : *Soya max* Piper. Sinonim *Glycine max* Merr. *Glycine soya* S. & Z. (Kedelai).

DESKRIPSI

Kedelai, atau kacang kedelai, adalah salah satu tanaman polong-polongan yang menjadi bahan dasar banyak makanan dari Asia Timur seperti kecap, tahu, dan tempe. Kedelai merupakan sumber utama protein nabati dan minyak nabati dunia.

Semak umur 1 tahun, tinggi 0,2-0,6 m. Batang persegi, dengan rambut coklat yang menjauhi batang atau mengarah ke bawah. Poros daun dengan tangkai 6-19 cm. Anak daun oval bulat telur atau memanjang, tepi rata, kedua belah sisi berambut, 3-15 x 2-7,5 cm. Bunga dalam berkas atau tandan, berkas duduk atau setinggi-tingginya bertangkai yang panjangnya 3 cm, bagian yang mendukung bunga 0,5-2 cm, anak tangkai bunga sangat pendek. Kelopak tinggi 5-7 mm, berambut panjang, bertaju 5, taju sempit, runcing. Mahkota putih atau lila, bendera panjang 6-7 mm, sayap dan lunas berbuku panjang. Benang sari bendera lepas atau mudah lepas, yang lainnya melekat. Bakal buah berambut rapat. Polongan per berkas atau tandan 1-4, mengarah ke bawah, 3-4,5 x 0,8-1,2 cm,

Lampiran 1. Lanjutan...

KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
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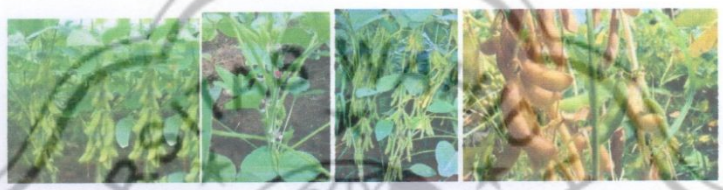
bertangkai pendek di atas sisi kelopak, pipih sekali dengan beberapa sekat antara seperti selaput. Kerapkali ditanam, 5-1000 m.

PUSTAKA :

Backer, CA, RCB Van Den Brink, 1963. Flora of Java. Volume I (III). NV. Noordhoff, Groningen, The Netherlands.

Van Steenis, C.G.G.J. 1981. Flora, Untuk Sekolah Indonesia. P.T. Pradnya Paramita, Jakarta.



Lampiran 2. Sertifikat Analisis Lesitin

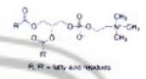
SIGMA-ALDRICH®

sigma-aldrich.com

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
L-α-Phosphatidylcholine - from egg yolk, Type XVI-E, ≥99% (TLC), lyophilized powder



Product Number:	P3556
Batch Number:	SLBQ7892V
Brand:	SIGMA
CAS Number:	8002-43-5
Storage Temperature:	Store at -20 °C
Quality Release Date:	01 APR 2016

Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless to Faint Yellow	Faint Yellow
Solubility (Turbidity) 100 mg/mL, CHCl3	Clear	Clear
Phosphorus (P)	3.4 - 4.4 %	4.0 %
Purity (TLC)	≥ 99 %	99 %
Note: Natural product, the composition of palmitic, oleic, linoleic and stearic acid will vary.		

Rodney Burbach

Rodney Burbach, Manager
Analytical Services
St. Louis, Missouri US

Lampiran 3. Surat Keterangan Telah Melakukan Penelitian di Laboratorium Kimia Fakultas Kedokteran Universitas Islam Sultan Agung Semarang

LABORATORIUM KIMIA FAKULTAS KEDOKTERAN
UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)
Jl.Raya Kaligawe Km.4 Po Box 1054/SM Telp.(024) 6583584 Ext.519 Semarang 50112

SURAT KETERANGAN
242 / L.KIM / SA.FK/2015

Dengan ini kami menerangkan bahwa :

Nama	:	**Intan Irawan**
NIM	:	135010936
Fakultas /Institusi	:	Farmasi / Universitas Wahid Hasyim Semarang
Judul Penelitian	:	Pengaruh Suhu Dan Lama Penyimpanan Terhadap Kadar Lesitin Dalam Soyghurt Secara Spektrofotometri UV-Vis
Nama	:	**Dian Bekti Murwati**
NIM	:	135010949
Fakultas /Institusi	:	Farmasi / Universitas Wahid Hasyim Semarang
Judul Penelitian	:	Pengaruh Suhu Dan Lama Penyimpanan Terhadap Kadar Lesitin Dalam Susu Kedelai Secara Spektrofotometri UV-Vis

Benar-benar telah melakukan penelitian dilaboratorium kimia Fakultas Kedokteran Unissula Semarang pada tanggal 11 April 2017 sampai 11 Juli 2017 dengan hasil penelitian terlampir.

Demikian surat keterangan ini kami buat untuk dapat digunakan sebagaimana mestinya.

Semarang, 04 Agustus 2017

Kepala Bagian Kimia.

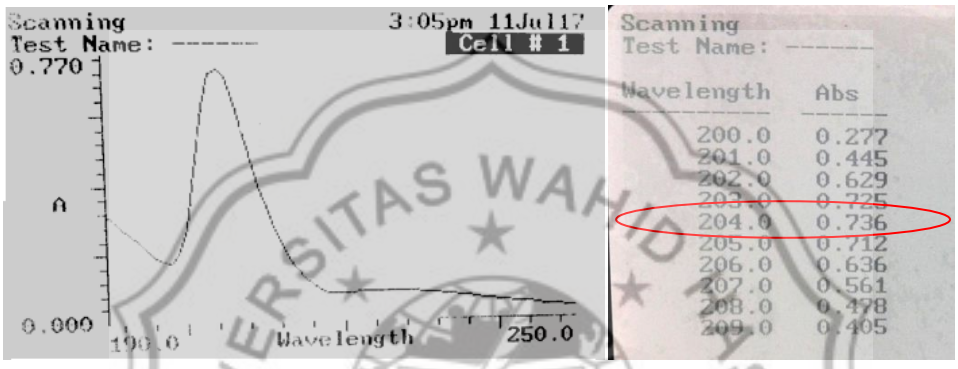
Dra. Hj. Eni Widayati. M.Si
NIK. 210185021

Lampiran 4. Hasil Penentuan Panjang Gelombang Maksimal

1. Perhitungan Larutan Stok

   10 mg Lesitin pa ad 100 mL = 100 mcg/mL = 100 ppm

2. Penentuan Panjang Gelombang Maksimal



Panjang Gelombang (λ) Maksimal Lesitin = 204 nm

Lampiran 5. Perhitungan Seri Konsentrasi Kurva Baku Lesitin

1 mL lesitin 100 ppm → 1 mL.100 ppm + 9 mL.0 ppm = 10 mL.**X**

X = 100 mL.ppm : 10 mL = 10 ppm

2 mL lesitin 100 ppm → 2 mL.100 ppm + 8 mL.0 ppm = 10 mL.X

X = 200 mL.ppm : 10 mL = 20 ppm

4 mL lesitin 100 ppm → 4 mL.100 ppm + 6 mL.0 ppm = 10 mL.X

X = 400 mL.ppm : 10 mL = 40 ppm

6 mL lesitin 100 ppm → 6 mL.100 ppm + 4 mL.0 ppm = 10 mL.X

X = 600 mL.ppm : 10 mL = 60 ppm

8 mL lesitin 100 ppm → 8 mL.100 ppm + 2 mL.0 ppm = 10 mL.X

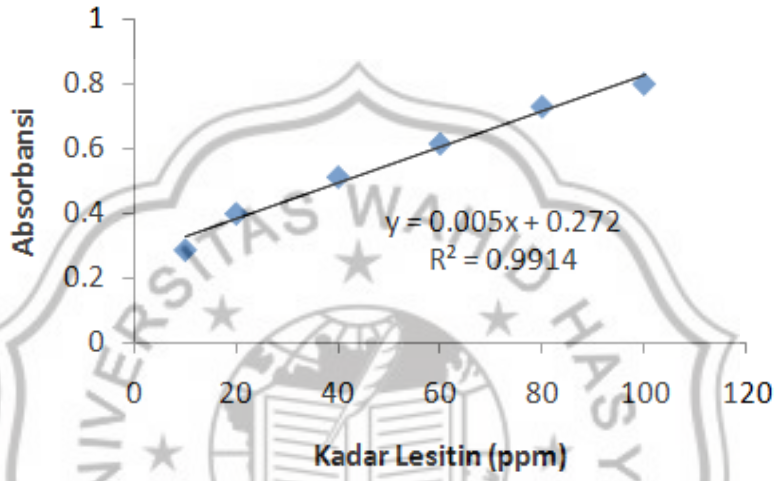
X = 800 mL.ppm : 10 mL = 80 ppm

10 mL lesitin 100 ppm → 10 mL.100 ppm + 0 mL.0 ppm = 10 mL.X

X = 1000 mL.ppm : 10 mL = 100 ppm

Lampiran 6. Hasil Absorbansi dan Perhitungan Persamaan Kurva Baku Lesitin

Kadar (ppm; x)	Absorbansi (y)
10	0.290
20	0.402
40	0.515
60	0.618
80	0.732
100	0.802



Regresi Linier Persamaan Kurva Baku

a = 0,272

b = 0,005

R = 0,9914

Y = bX + a

Y = 0,005X + 0,272

Lampiran 7. Hasil Absorbansi dan Perhitungan Kadar Lesitin Susu Kedelai

Kadar Lesitin = ((Y-0,272):5,56.10^{-3})x FP

suhu / lama	dingin			sejuk			kamar			rata-rata
	serapan	FP	kadar (ppm)	serapan	FP	kadar (ppm)	serapan	FP	kadar (ppm)	
0							0.455	4	131.270	131.987
							0.464	4	137.740	
							0.449	4	126.950	
rata-rata									**131.987**	
1	0.513	3	129.74	0.872	1	107.80	0.384	5	100.25	105.671
	0.481	3	112.47	0.842	1	102.40	0.383	5	99.35	
	0.478	3	110.86	0.863	1	106.80	0.363	5	81.37	
rata-rata			**117.69**			**105.67**			**93.66**	
2	0.616	2	123.53	0.871	1	107.62	0.551	1	50.08	87.769
	0.571	2	107.53	0.834	1	100.96	0.525	1	45.40	
	0.568	2	106.27	0.857	1	105.10	0.514	1	43.43	
rata-rata			**112.44**			**104.56**			**46.30**	
5	0.542	2	96.92	0.419	4	105.37	0.458	1	33.36	75.5322
	0.519	2	88.65	0.388	4	83.08	0.490	1	39.11	
	0.556	2	101.95	0.407	4	96.74	0.465	1	34.61	
rata-rata			**95.84**			**95.06**			**35.69**	
7	0.339	4	47.83	0.33	4	41.36	0.441	1	30.30	40.37
	0.359	4	62.22	0.315	4	30.57	0.389	1	20.95	
	0.356	4	60.06	0.332	4	42.80	0.424	1	27.24	
rata-rata			**56.70**			**38.24**			**26.16**	
			95.669			85.883			50.454	

0 hari tanpa merk			bermerk X		
serapan	FP	kadar (ppm)	serapan	FP	kadar (ppm)
0.455	4	131.270	0.712	2	158.060
0.464	4	137.740	0.681	2	146.910
0.449	4	126.950	0.665	2	141.150
Rata-rata		**131.987**	Rata-rata		**148.707**

Lampiran 8. Hasil Analisis Statistik Pengaruh Suhu Dan Lama Penyimpanan Terhadap Kadar Lesitin

1. UJI HOMOGENITAS

Test of Homogeneity of Variances

kadar lesitin

Levene Statistic	df1	df2	Sig.
1.977	12	26	.071

Signifikansi lebih dari 0,05 => data homogen

2. UJI NORMALITAS

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	penyimpanan	Statistic	df	Sig.	Statistic	df	Sig.
kadar lesitin	kontrol 0 hari	.219	3	.	.987	3	.781
	dingin 1 hari	.358	3	.	.813	3	.147
	sejuk 1 hari	.320	3	.	.883	3	.334
	kamar 1 hari	.370	3	.	.786	3	.081
	dingin 2 hari	.362	3	.	.804	3	.125
	sejuk 2 hari	.230	3	.	.981	3	.734
	kamar 2 hari	.271	3	.	.948	3	.559
	dingin 5 hari	.231	3	.	.981	3	.733
	sejuk 5 hari	.226	3	.	.983	3	.753
	kamar 5 hari	.307	3	.	.904	3	.398
	dingin 7 hari	.334	3	.	.860	3	.267
	sejuk 7 hari	.346	3	.	.837	3	.206
	kamar 7 hari	.256	3	.	.962	3	.624

a. Lilliefors Significance Correction

Signifikansi > 0,05 => data normal

3. UJI ANOVA 2 JALAN

Tests of Between-Subjects Effects

Dependent Variable:kadar lesitin

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	46063.444[a]	12	3838.620	72.907	.000
Intercept	279075.378	1	279075.378	5.300E3	.000
lama	36487.279	4	9121.820	173.251	.000
suhu	13581.538	2	6790.769	128.977	.000
lama * suhu	3677.760	6	612.960	11.642	.000
Error	1368.922	26	52.651		
Total	306731.197	39			
Corrected Total	47432.366	38			

a. R Squared = .971 (Adjusted R Squared = .958)

Signifikansi <0,05 => terdapat perbedaan yang signifikan

Lampiran 8. Lanjutan

4. POST HOC

Multiple Comparisons

kadar lesitin
Tukey HSD

(I) suhu penyimpanan	(J) suhu penyimpanan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
suhu dingin	suhu sejuk	9.78583*	2.962286	.008	2.42487	17.14680
	suhu kamar	28.90850*	2.810271	.000	21.92527	35.89173
suhu sejuk	suhu dingin	-9.78583*	2.962286	.008	-17.14680	-2.42487
	suhu kamar	19.12267*	2.810271	.000	12.13944	26.10589
suhu kamar	suhu dingin	-28.90850*	2.810271	.000	-35.89173	-21.92527
	suhu sejuk	-19.12267*	2.810271	.000	-26.10589	-12.13944

Based on observed means.
The error term is Mean Square(Error) = 52.651.

*. The mean difference is significant at the .05 level.

Multiple Comparisons

kadar lesitin
Tukey HSD

(I) lama penyimpanan	(J) lama penyimpanan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol 0 hari	1 hari	26.31556*	4.837393	.000	12.14949	40.48162
	2 hari	44.21778*	4.837393	.000	30.05171	58.38385
	5 hari	56.45444*	4.837393	.000	42.28838	70.62051
	7 hari	91.61667*	4.837393	.000	77.45060	105.78273
1 hari	kontrol 0 hari	-26.31556*	4.837393	.000	-40.48162	-12.14949
	2 hari	17.90222*	3.420553	.000	7.88530	27.91914
	5 hari	30.13889*	3.420553	.000	20.12197	40.15581
	7 hari	65.30111*	3.420553	.000	55.28419	75.31803
2 hari	kontrol 0 hari	-44.21778*	4.837393	.000	-58.38385	-30.05171
	1 hari	-17.90222*	3.420553	.000	-27.91914	-7.88530
	5 hari	12.23667*	3.420553	.011	2.21974	22.25359
	7 hari	47.39889*	3.420553	.000	37.38197	57.41581
5 hari	kontrol 0 hari	-56.45444*	4.837393	.000	-70.62051	-42.28838
	1 hari	-30.13889*	3.420553	.000	-40.15581	-20.12197
	2 hari	-12.23667*	3.420553	.011	-22.25359	-2.21974
	7 hari	35.16222*	3.420553	.000	25.14530	45.17914
7 hari	kontrol 0 hari	-91.61667*	4.837393	.000	-105.78273	-77.45060
	1 hari	-65.30111*	3.420553	.000	-75.31803	-55.28419
	2 hari	-47.39889*	3.420553	.000	-57.41581	-37.38197
	5 hari	-35.16222*	3.420553	.000	-45.17914	-25.14530

Based on observed means.
The error term is Mean Square(Error) = 52.651.

*. The mean difference is significant at the .05 level.

Terdapat perbedaan yang signifikan dari tiap kelompok perlakuan

Lampiran 9. Analisis Statistik Kadar Lesitin berdasarkan Suhu Penyimpanan

a. Dingin

Test of Homogeneity of Variances

kadar lesitin

Levene Statistic	df1	df2	Sig.
.939	4	10	.480

ANOVA

kadar lesitin

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	10931.346	4	2732.836	36.929	.000
Within Groups	740.020	10	74.002		
Total	11671.365	14			

Multiple Comparisons

kadar lesitin
Tukey HSD

(I) dingin	(J) dingin	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1 hari	2 hari	5.875667	7.023863	.913	-17.24044	28.99178
	5 hari	23.188333*	7.023863	.049	.07222	46.30444
	7 hari	63.501333*	7.023863	.000	40.38522	86.61744
	kontrol	-15.284333	7.023863	.263	-38.40044	7.83178
2 hari	1 hari	-5.875667	7.023863	.913	-28.99178	17.24044
	5 hari	17.312667	7.023863	.175	-5.80344	40.42878
	7 hari	57.625667*	7.023863	.000	34.50956	80.74178
	kontrol	-21.160000	7.023863	.077	-44.27611	1.95611
5 hari	1 hari	-23.188333*	7.023863	.049	-46.30444	-.07222
	2 hari	-17.312667	7.023863	.175	-40.42878	5.80344
	7 hari	40.313000*	7.023863	.001	17.19689	63.42911
	kontrol	-38.472667*	7.023863	.002	-61.58878	-15.35656
7 hari	1 hari	-63.501333*	7.023863	.000	-86.61744	-40.38522
	2 hari	-57.625667*	7.023863	.000	-80.74178	-34.50956
	5 hari	-40.313000*	7.023863	.001	-63.42911	-17.19689
	kontrol	-78.785667*	7.023863	.000	-101.90178	-55.66956
kontrol	1 hari	15.284333	7.023863	.263	-7.83178	38.40044
	2 hari	21.160000	7.023863	.077	-1.95611	44.27611
	5 hari	38.472667*	7.023863	.002	15.35656	61.58878
	7 hari	78.785667*	7.023863	.000	55.66956	101.90178

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

Lampiran 9. Lanjutan...

b. Sejuk

Test of Homogeneity of Variances

kadar lesitin

Levene Statistic	df1	df2	Sig.
1.834	4	10	.199

ANOVA

kadar lesitin

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	15621.580	4	3905.395	81.226	.000
Within Groups	480.806	10	48.081		
Total	16102.386	14			

Multiple Comparisons

kadar lesitin
Tukey HSD

(I) sejuk	(J) sejuk	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1 hari	2 hari	.940667	5.661602	1.000	-17.69213	19.57346
	5 hari	9.911000	5.661602	.449	-8.72180	28.54380
	7 hari	69.377000*	5.661602	.000	50.74420	88.00980
	kontrol	-28.729000*	5.661602	.003	-47.36180	-10.09620
2 hari	1 hari	-.940667	5.661602	1.000	-19.57346	17.69213
	5 hari	8.970333	5.661602	.537	-9.66246	27.60313
	7 hari	68.436333*	5.661602	.000	49.80354	87.06913
	kontrol	-29.669667*	5.661602	.003	-48.30246	-11.03687
5 hari	1 hari	-9.911000	5.661602	.449	-28.54380	8.72180
	2 hari	-8.970333	5.661602	.537	-27.60313	9.66246
	7 hari	59.466000*	5.661602	.000	40.83320	78.09880
	kontrol	-38.640000*	5.661602	.000	-57.27280	-20.00720
7 hari	1 hari	-69.377000*	5.661602	.000	-88.00980	-50.74420
	2 hari	-68.436333*	5.661602	.000	-87.06913	-49.80354
	5 hari	-59.466000*	5.661602	.000	-78.09880	-40.83320
	kontrol	-98.106000*	5.661602	.000	-116.73880	-79.47320
kontrol	1 hari	28.729000*	5.661602	.003	10.09620	47.36180
	2 hari	29.669667*	5.661602	.003	11.03687	48.30246
	5 hari	38.640000*	5.661602	.000	20.00720	57.27280
	7 hari	98.106000*	5.661602	.000	79.47320	116.73880

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

Lampiran 9. Lanjutan

c. Suhu kamar

Test of Homogeneity of Variances

kadar lesitin

Levene Statistic	df1	df2	Sig.
3.046	4	10	.070

ANOVA

kadar lesitin

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	26937.827	4	6734.457	164.867	.000
Within Groups	408.477	10	40.848		
Total	27346.304	14			

Multiple Comparisons

kadar lesitin
Tukey HSD

(I) kamar	(J) kamar	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1 hari	2 hari	50.851000*	5.218411	.000	33.67678	68.02522
	5 hari	61.953667*	5.218411	.000	44.77945	79.12788
	7 hari	71.927333*	5.218411	.000	54.75312	89.10155
	kontrol	-39.790333*	5.218411	.000	-56.96455	-22.61612
2 hari	1 hari	-50.851000*	5.218411	.000	-68.02522	-33.67678
	5 hari	11.102667	5.218411	.281	-6.07155	28.27688
	7 hari	21.076333*	5.218411	.016	3.90212	38.25055
	kontrol	-90.641333*	5.218411	.000	-107.81555	-73.46712
5 hari	1 hari	-61.953667*	5.218411	.000	-79.12788	-44.77945
	2 hari	-11.102667	5.218411	.281	-28.27688	6.07155
	7 hari	9.973667	5.218411	.371	-7.20055	27.14788
	kontrol	-101.744000*	5.218411	.000	-118.91822	-84.56978
7 hari	1 hari	-71.927333*	5.218411	.000	-89.10155	-54.75312
	2 hari	-21.076333*	5.218411	.016	-38.25055	-3.90212
	5 hari	-9.973667	5.218411	.371	-27.14788	7.20055
	kontrol	-111.717667*	5.218411	.000	-128.89188	-94.54345
kontrol	1 hari	39.790333*	5.218411	.000	22.61612	56.96455
	2 hari	90.641333*	5.218411	.000	73.46712	107.81555
	5 hari	101.744000*	5.218411	.000	84.56978	118.91822
	7 hari	111.717667*	5.218411	.000	94.54345	128.89188

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

Lampiran 10. Analisis Statistik Kadar Lesitin Berdasarkan Lama Penyimpanan

a. 1 hari

ANOVA

kadar lesitin

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2432.801	3	810.934	10.749	.005
Within Groups	528.083	7	75.440		
Total	2960.884	10			

Post Hoc

Multiple Comparisons

kadar lesitin
Tukey HSD

(I) 1 hari	(J) 1 hari	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
dingin	sejuk	13.444667	7.091798	.310	-10.03033	36.91967
	kamar	24.506000*	7.091798	.041	1.03100	47.98100
	kontrol	-17.919000	7.928872	.197	-44.16485	8.32685
sejuk	dingin	-13.444667	7.091798	.310	-36.91967	10.03033
	kamar	11.061333	7.091798	.456	-12.41367	34.53633
	kontrol	-31.363667*	7.928872	.022	-57.60951	-5.11782
kamar	dingin	-24.506000*	7.091798	.041	-47.98100	-1.03100
	sejuk	-11.061333	7.091798	.456	-34.53633	12.41367
	kontrol	-42.425000*	7.928872	.005	-68.67085	-16.17915
kontrol	dingin	17.919000	7.928872	.197	-8.32685	44.16485
	sejuk	31.363667*	7.928872	.022	5.11782	57.60951
	kamar	42.425000*	7.928872	.005	16.17915	68.67085

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

b. 2 hari

ANOVA

kadar lesitin

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13621.125	3	4540.375	113.609	.000
Within Groups	319.721	8	39.965		
Total	13940.846	11			

Post Hoc

Multiple Comparisons

kadar lesitin
Tukey HSD

(I) 2 hari	(J) 2 hari	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
dingin	sejuk	8.509667	5.161723	.407	-8.01999	25.03932
	kamar	69.481333*	5.161723	.000	52.95168	86.01099
	kontrol	-21.160000*	5.161723	.015	-37.68965	-4.63035
sejuk	dingin	-8.509667	5.161723	.407	-25.03932	8.01999
	kamar	60.971667*	5.161723	.000	44.44201	77.50132
	kontrol	-29.669667*	5.161723	.002	-46.19932	-13.14001
kamar	dingin	-69.481333*	5.161723	.000	-86.01099	-52.95168
	sejuk	-60.971667*	5.161723	.000	-77.50132	-44.44201
	kontrol	-90.641333*	5.161723	.000	-107.17099	-74.11168
kontrol	dingin	21.160000*	5.161723	.015	4.63035	37.68965
	sejuk	29.669667*	5.161723	.002	13.14001	46.19932
	kamar	90.641333*	5.161723	.000	74.11168	107.17099

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

Lampiran 10. Lanjutan

c. 5 hari

ANOVA

kadar lesitin

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	15982.831	3	5327.610	92.577	.000
Within Groups	460.384	8	57.548		
Total	16443.215	11			

Post Hoc

Multiple Comparisons

kadar lesitin
Tukey HSD

(I) 5 hari	(J) 5 hari	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
dingin	sejuk	.167333	6.193976	1.000	-19.66796	20.00263
	kamar	63.271333*	6.193976	.000	43.43604	83.10663
	kontrol	-38.472667*	6.193976	.001	-58.30796	-18.63737
sejuk	dingin	-.167333	6.193976	1.000	-20.00263	19.66796
	kamar	63.104000*	6.193976	.000	43.26871	82.93929
	kontrol	-38.640000*	6.193976	.001	-58.47529	-18.80471
kamar	dingin	-63.271333*	6.193976	.000	-83.10663	-43.43604
	sejuk	-63.104000*	6.193976	.000	-82.93929	-43.26871
	kontrol	-101.744000*	6.193976	.000	-121.57929	-81.90871
kontrol	dingin	38.472667*	6.193976	.001	18.63737	58.30796
	sejuk	38.640000*	6.193976	.001	18.80471	58.47529
	kamar	101.744000*	6.193976	.000	81.90871	121.57929

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

d. 7 hari

ANOVA

kadar lesitin

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	22466.906	3	7488.969	174.132	.000
Within Groups	344.059	8	43.007		
Total	22810.965	11			

Post Hoc

Multiple Comparisons

kadar lesitin
Tukey HSD

(I) 7 hari	(J) 7 hari	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
dingin	sejuk	19.320333*	5.354584	.028	2.17307	36.46760
	kamar	32.932000*	5.354584	.001	15.78474	50.07926
	kontrol	-78.785667*	5.354584	.000	-95.93293	-61.63840
sejuk	dingin	-19.320333*	5.354584	.028	-36.46760	-2.17307
	kamar	13.611667	5.354584	.127	-3.53560	30.75893
	kontrol	-98.106000*	5.354584	.000	-115.25326	-80.95874
kamar	dingin	-32.932000*	5.354584	.001	-50.07926	-15.78474
	sejuk	-13.611667	5.354584	.127	-30.75893	3.53560
	kontrol	-111.717667*	5.354584	.000	-128.86493	-94.57040
kontrol	dingin	78.785667*	5.354584	.000	61.63840	95.93293
	sejuk	98.106000*	5.354584	.000	80.95874	115.25326
	kamar	111.717667*	5.354584	.000	94.57040	128.86493

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

Lampiran 11. Analisis Statistik Kadar Lesitin Susu Kedelai Kontrol Dan Susu Kedelai Yang Sedang Beredar di Pasaran

T-Test

[DataSet1]

Group Statistics

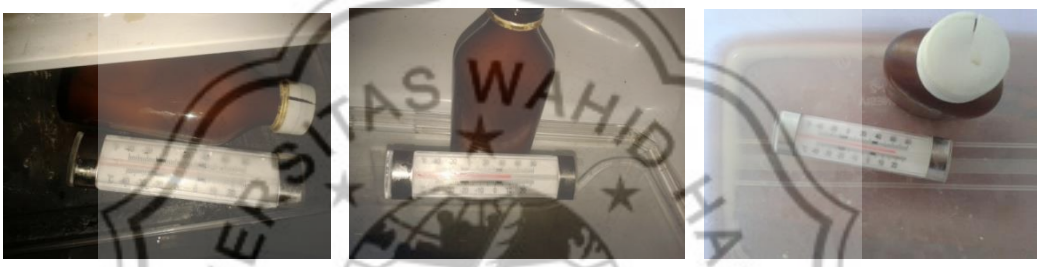
	susu kedelai	N	Mean	Std. Deviation	Std. Error Mean
kadar lesitin	tanpa merk	3	1.3942E2	5.682972	3.281066
	bermerk	3	1.5627E2	8.993369	5.192324

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
kadar lesitin	Equal variances assumed	.750	.435	-2.744	4	.052	-16.853333	6.142118	-33.906588	.199921
	Equal variances not assumed			-2.744	3.378	.062	-16.853333	6.142118	-35.220421	1.513755

Lampiran 12. Dokumentasi Penelitian

Pembuatan Susu Kedelai



Penyimpanan Susu Kedelai pada Suhu Dingin, Sejuk, dan Kamar

100 mL susu kedelai, dicampur kloroform-metanol (2:1) lalu di RE I

Hasil RE I kemudian dipartisi dengan solven A dan B di RE kembali

Lampiran 12. Lanjutan...

Hasil RE kemudian dilarutkan dalam aseton dan difiltrasi

Lesitin pa (Sigma Aldrich) dibuat larutan stok dan seri konsentrasi kurva baku kemudian diukur serapannya dengan spektrofotometer

Susu Kedelai bermerk X yang digunakan sebagai pembanding