

DAFTAR LAMPIRAN

Lampiran 1. Sampo Fermentasi Apel



Lampiran 2. Fermentasi Apel Fuji



Lampiran 3. Hasil Determinasi

HERBARIUM JATINANGOR
LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA UNPAD
 Gedung D2-212, Jl. Raya Bandung Sumedang Km 21 Jatinangor
 Telp. 089689992695, email: phanerogamae@yahoo.com

LEMBAR IDENTIFIKASI TUMBUHAN

No.15/HB/07/2024.

Herbarium Jatinangor, Laboratorium Taksonomi Tumbuhan, Jurusan Biologi FMIPA UNPAD, dengan ini menerangkan bahwa:

Nama : Lucia Diana Putri
 NIM/NIDN : 201FF03091
 Instansi : Universitas Bhakti Kencana.
 Lokasi : Bandung.

Telah melakukan identifikasi tumbuhan, dengan No. Koleksi : -
 Tanggal Koleksi : 01 Juli 2024.

Hasil Identifikasi

Nama Ilmiah : ***Malus domestica* Borkh.**
 Sinonim : *Pyrus malus* L.
 Nama Lokal : Buah Apel Fuji
 Suku/Famili : Rosaceae

Klasifikasi (Hirarki Taksonomi)

Kingdom	Plantae
Divisi	Magnoliophyta
Class	Magnoliopsida
Ordo	Rosales
Famili	Rosaceae
Genus	<i>Malus</i>
Species	<i>Malus domestica</i> Borkh.

Referensi:

Backer, C. A. and Bakhuizen v/d Brink R. C Jr. 1963. Flora of Java. Wolter-Noordhoff NV. Groningen.
 Cronquist, Arthur. 1981. An Integrated System of Classification of Flowering Plants. Columbia University Press. New York
 The Plant List. Website Dunia Tumbuhan. <http://www.theplantlist.org/tp1.1/record/kew-158489>.

Jatinangor, 03 Juli 2024.

Identifikator,

LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA-UNPAD

Drs. Joko Kusmoro, M.P.
 NIP. 19600801 199101 1 001

Lampiran 4. Hasil Evaluasi Optimasi Basis

a. Uji pH

Replikasi	Pembandi	F1	F2	F3
1	6.13	5.24	5.37	5.54
2	6.15	5.19	5.24	5.43
3	6.15	5.24	5.38	5.48
rata-rata	6.143333	5.223333	5.33	5.483333

b. Uji stabilitas busa

Replikasi	Pembandi	F1	F2	F3
1	94	88	85	86
2	94	86	86	85
3	95	87	88	83
rata-rata	94.33333	87	86.33333	84.66667

c. Uji viskositas

	Pembandi	F1	F2	F3
1	2942	2892	3047	3200
2	2937	2895	3120	3213
3	2939	2896	3136	3327
rata-rata	2939.333	2894.333	3101	3246.667

Lampiran 5. Analisis data SPSS Formula Sampo

a. Hasil data SPSS Homogenitas, ANOVA, Post Hoc Uji Ph

➔ Oneway

[DataSet1] D:\2. TA\1 DATA\SPSS\SPSSCC\DATA UJI PH.sav

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Uji_Ph	Based on Mean	12.990	3	8	.002
	Based on Median	1.116	3	8	.398
	Based on Median and with adjusted df	1.116	3	2.068	.501
	Based on trimmed mean	10.646	3	8	.004

ANOVA

Uji_Ph

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	23238.000	3	7746.000	11.196	.003
Within Groups	5534.667	8	691.833		
Total	28772.667	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Uji_Ph

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
Pembanding	Formula 1	97.66667*	21.47608	.008	28.8927	166.4407
	Formula 2	99.66667*	21.47608	.007	30.8927	168.4407
	Formula 3	106.66667*	21.47608	.005	37.8927	175.4407
Formula 1	Pembanding	-97.66667*	21.47608	.008	-166.4407	-28.8927
	Formula 2	2.00000	21.47608	1.000	-66.7740	70.7740
	Formula 3	9.00000	21.47608	.974	-59.7740	77.7740
Formula 2	Pembanding	-99.66667*	21.47608	.007	-168.4407	-30.8927
	Formula 1	-2.00000	21.47608	1.000	-70.7740	66.7740
	Formula 3	7.00000	21.47608	.987	-61.7740	75.7740
Formula 3	Pembanding	-106.66667*	21.47608	.005	-175.4407	-37.8927
	Formula 1	-9.00000	21.47608	.974	-77.7740	59.7740
	Formula 2	-7.00000	21.47608	.987	-75.7740	61.7740

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

c. Hasil data SPSS Homogenitas, ANOVA, Post Hoc Uji Viskositas

➔ **Oneway**

[DataSet1] D:\2. TA\1 DATA\SPSS\SPSSCC\Data Uji Viskositas.sav

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Uji_Viskositas	Based on Mean	5.224	3	8	.027
	Based on Median	1.466	3	8	.295
	Based on Median and with adjusted df	1.466	3	2.881	.385
	Based on trimmed mean	4.839	3	8	.033

ANOVA

Uji_Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	88980.667	3	29660.222	61.134	.000
Within Groups	3881.333	8	485.167		
Total	92862.000	11			

Post Hoc Tests**Multiple Comparisons**

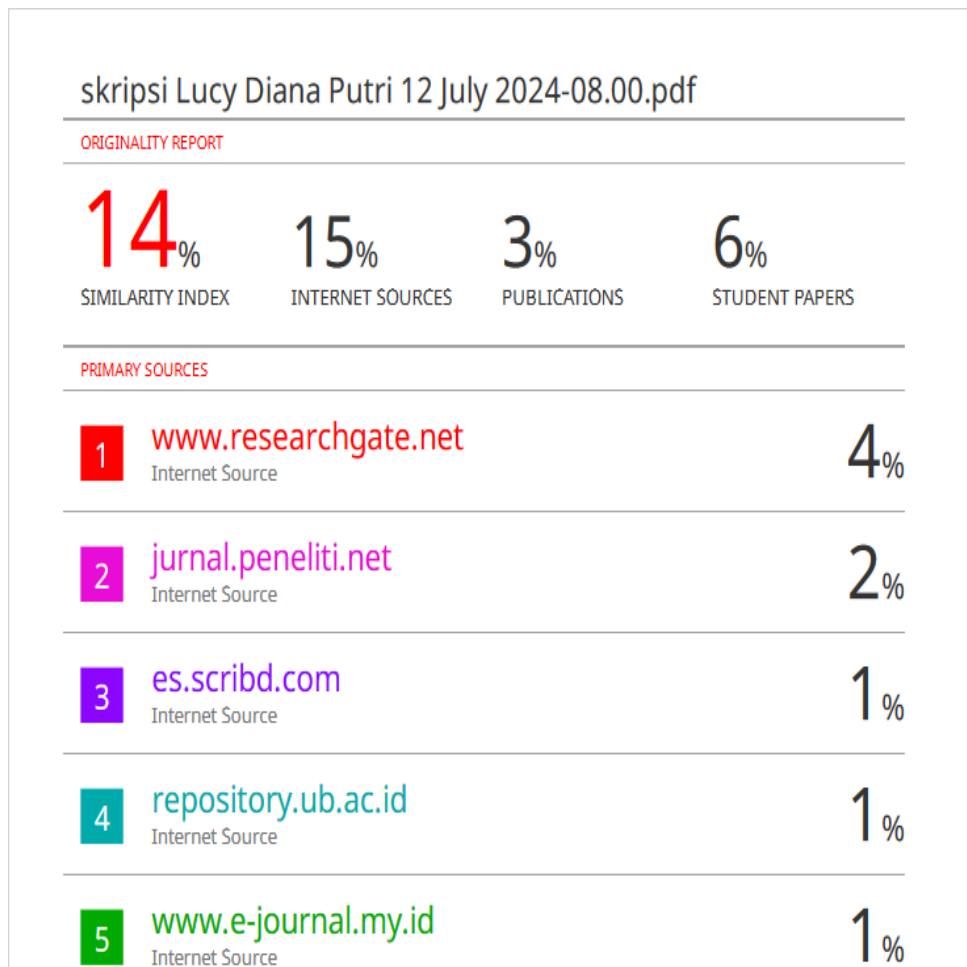
Dependent Variable: Uji_Viskositas

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Pembanding	Formula 1	54.66667	17.98456	.063	-2.9262	112.2596
	Formula 2	158.33333*	17.98456	.000	100.7404	215.9262
	Formula 3	220.33333*	17.98456	.000	162.7404	277.9262
Formula 1	Pembanding	-54.66667	17.98456	.063	-112.2596	2.9262
	Formula 2	103.66667*	17.98456	.002	46.0738	161.2596
	Formula 3	165.66667*	17.98456	.000	108.0738	223.2596
Formula 2	Pembanding	-158.33333*	17.98456	.000	-215.9262	-100.7404
	Formula 1	-103.66667*	17.98456	.002	-161.2596	-46.0738
	Formula 3	62.00000*	17.98456	.035	4.4071	119.5929
Formula 3	Pembanding	-220.33333*	17.98456	.000	-277.9262	-162.7404
	Formula 1	-165.66667*	17.98456	.000	-223.2596	-108.0738
	Formula 2	-62.00000*	17.98456	.035	-119.5929	-4.4071

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

Lampiran 6. Bukti Plagiarisme



Lampiran 7. Antioksidan Fermentasi Apel

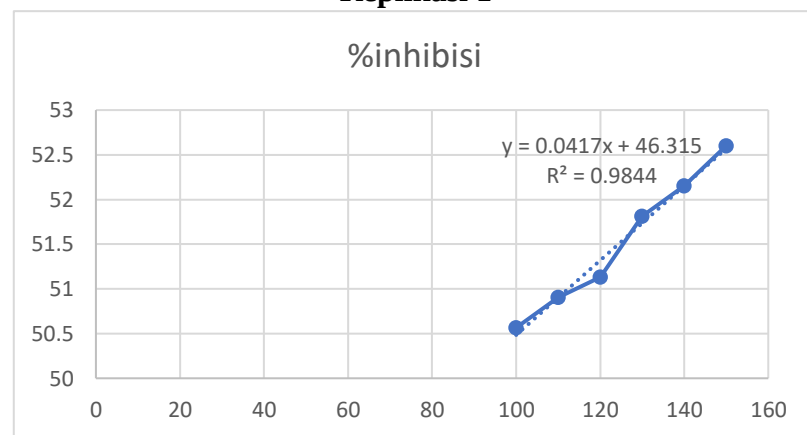
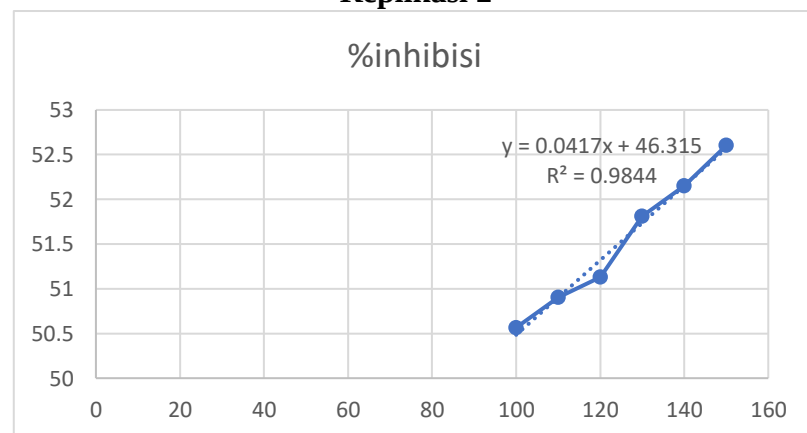
Data Hasil Aktivitas Antioksidan fermentasi apel

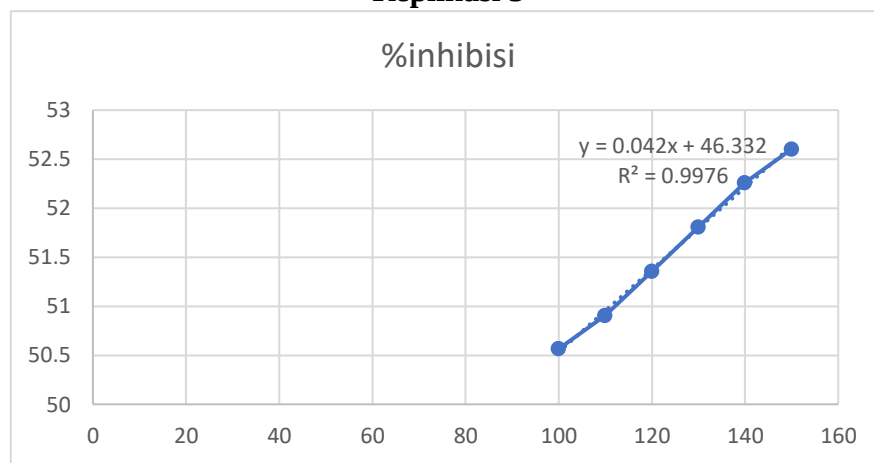
Konsentrasi	%inhibisi	Absorban	Absorban Kontrol (70 ppm)			
500	63.70787	0.323	0.89			
520	64.49438	0.316	0.89			
540	65.8427	0.304	0.89			
560	67.30337	0.291	0.89			
580	67.97753	0.285	0.89			
600	68.98876	0.276	0.89			

Konsentrasi	Abs Kontrol	Abs Sampel			% Inhibisi			IC50			Rata-rata IC50	SD
		1	2	3	1	2	3	1	2	3		
100	0.884	0.437	0.437	0.437	50.565611	50.565611	50.565611	88.369	88.369	87.333	88.02	± 0.59
110	0.884	0.434	0.434	0.434	50.904977	50.904977	50.904977					
120	0.884	0.432	0.432	0.43	51.131222	51.131222	51.357466					

130	0.884	0.426	0.426	0.426	51.809955	51.809955	51.809955					
140	0.884	0.423	0.423	0.422	52.149321	52.149321	52.262443					
150	0.884	0.419	0.419	0.419	52.60181	52.60181	52.60181					

Konsentrasi	%inhibisi	Absorban	Absorban Kontrol (70 ppm)
500	63.70787	0.323	0.89
520	64.49438	0.316	0.89
540	65.8427	0.304	0.89
560	67.30337	0.291	0.89
580	67.97753	0.285	0.89
600	68.98876	0.276	0.89
Nilai IC50	(50-a)/b		
Hasil aktivitas	250.804	Lemah	

Replikasi 1**Replikasi 2**

Replikasi 3

Lampiran 8. Antioksidan Sari Apel

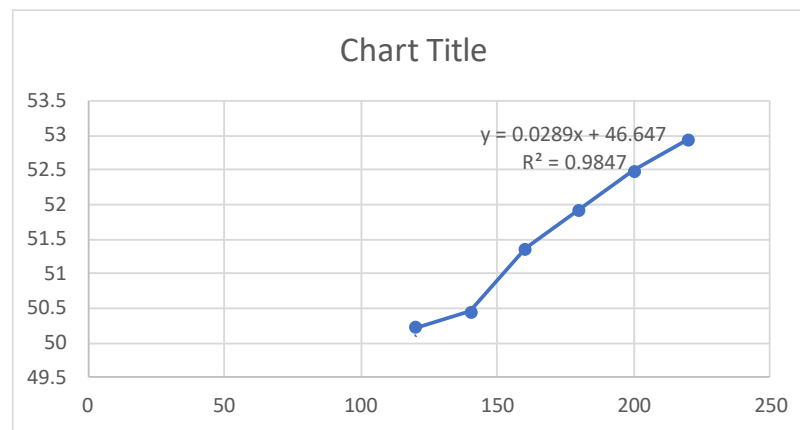
Data Hasil Aktivitas Antioksidan Sari Apel

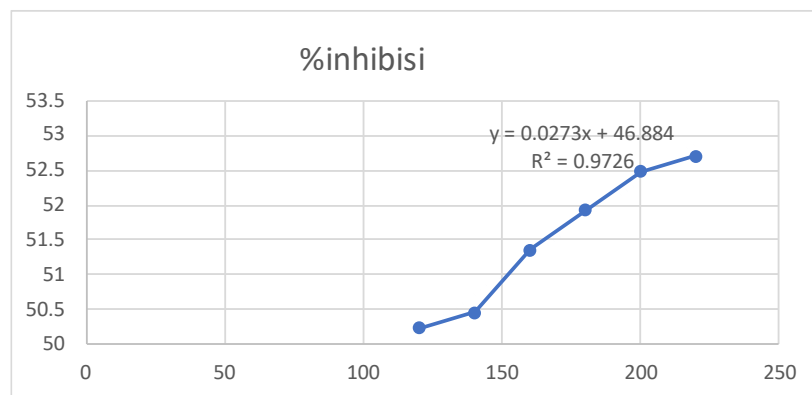
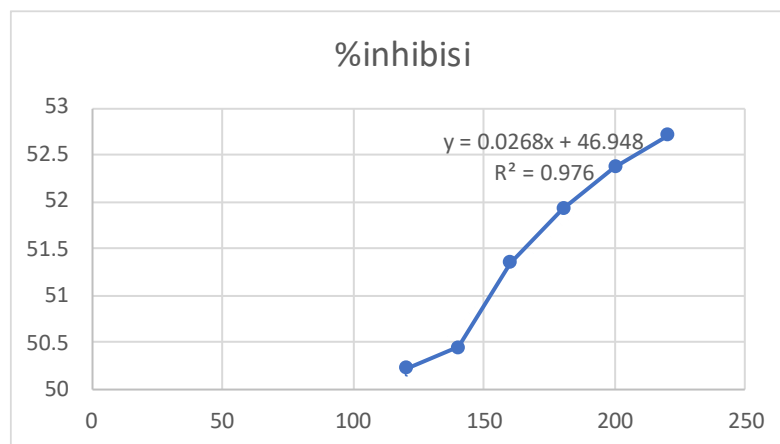
Konsentrasi	%inhibisi	Absorban	Absorban Kontrol (70 ppm)			
500	63.70787	0.323	0.89			
520	64.49438	0.316	0.89			
540	65.8427	0.304	0.89			
560	67.30337	0.291	0.89			
580	67.97753	0.285	0.89			
600	68.98876	0.276	0.89			

Konsentrasi	Abs Kontrol	Abs Sampel			% Inhibisi			IC50			Rata-rata IC50	SD
		1	2	3	1	2	3	1	2	3		
120	0.884	0.44	0.44	0.44	50.22624434	50.22624434	50.22624434	116.02	114.39	113.88	114.67	± 1,16
140	0.884	0.438	0.438	0.438	50.45248869	50.45248869	50.45248869					
160	0.884	0.43	0.43	0.43	51.35746606	51.35746606	51.35746606					
180	0.884	0.425	0.425	0.425	51.92307692	51.92307692	51.92307692					

200	0.884	0.42	0.42	0.421	52.48868778	52.48868778	52.37556561					
220	0.884	0.416	0.418	0.418	52.94117647	52.71493213	52.71493213					

Replikasi 1



Replikasi 2**Replikasi 3**

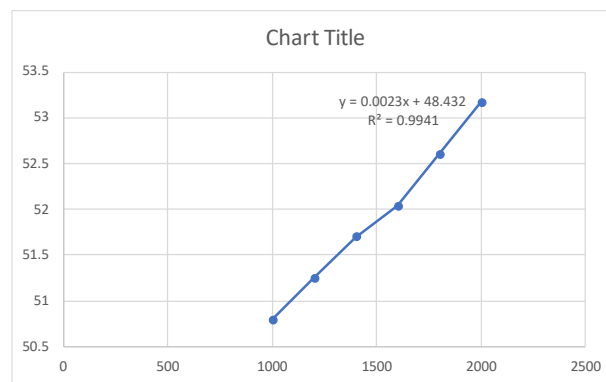
Lampiran 9. Antioksidan Formula 1**Data Hasil Aktivitas Antioksidan Formula 1**

Konsentrasi	%inhibisi	Absorban	Absorban Kontrol (70 ppm)			
500	63.70787	0.323	0.89			
520	64.49438	0.316	0.89			
540	65.8427	0.304	0.89			
560	67.30337	0.291	0.89			
580	67.97753	0.285	0.89			
600	68.98876	0.276	0.89			

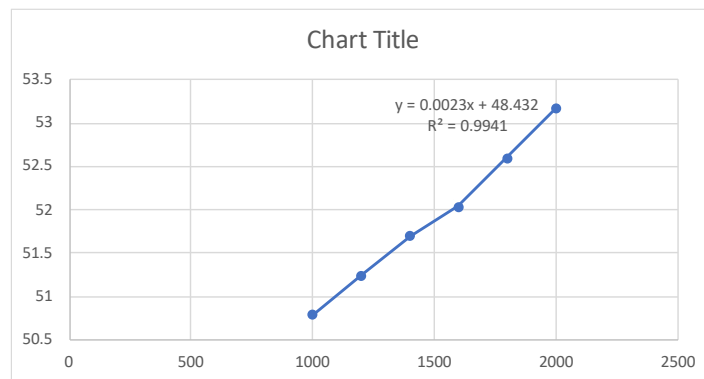
Konsentrasi	Abs Kontrol	Abs Sampel			% Inhibisi			IC50			Rata-rata IC50	SD
		1	2	3	1	2	3	1	2	3		
1000	0.884	0.435	0.435	0.435	50.79186	50.79186	50.79186	681.739	681.739	691.25	684.90	± 5,49
1200	0.884	0.431	0.431	0.432	51.24434	51.24434	51.13122					
1400	0.884	0.427	0.427	0.427	51.69683	51.69683	51.69683					
1600	0.884	0.424	0.424	0.424	52.0362	52.0362	52.0362					

1800	0.884	0.419	0.419	0.419	52.60181	52.60181	52.60181					
2000	0.884	0.414	0.414	0.414	53.16742	53.16742	53.16742					

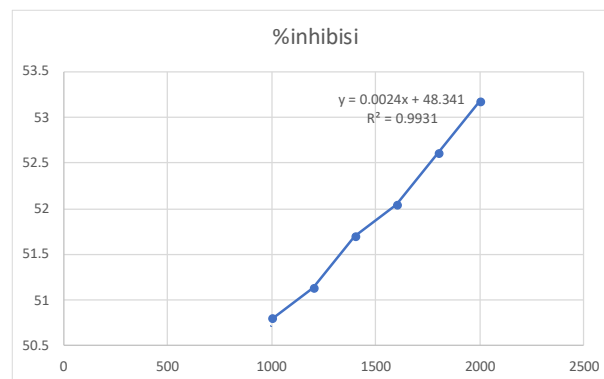
Replikasi 1



Replikasi 2



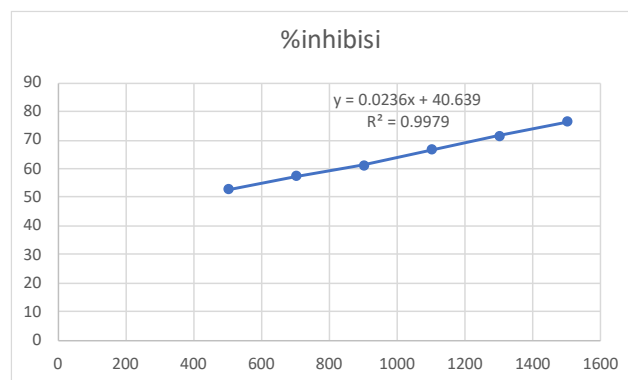
Replikasi 3



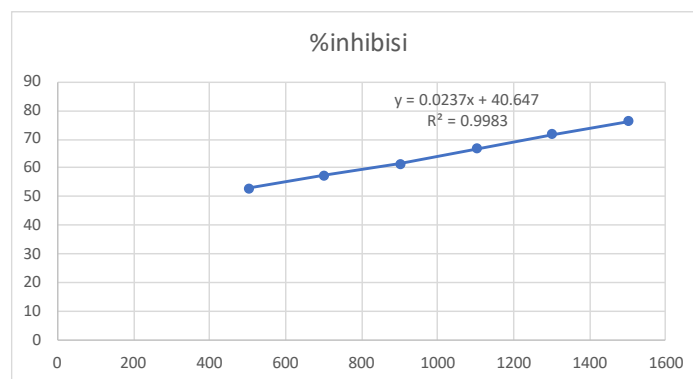
Lampiran 10. Antioksidan Formula 2**Data Hasil Aktivitas Antioksidan Fermentase Formula 2**

Konsentrasi	Abs Kontrol	Abs Sampel			% Inhibisi			IC50			Rata-rata IC50	SD
		1	2	3	1	2	3	1	2	3		
500	0.89	0.42	0.42	0.42	52.80899	52.80899	52.80899	396.652	394.641	394.127	395.14	± 1,33
700	0.89	0.38	0.38	0.38	57.30337	57.30337	57.30337					
900	0.89	0.346	0.345	0.345	61.1236	61.23596	61.23596					
1100	0.89	0.298	0.297	0.297	66.51685	66.62921	66.62921					
1300	0.89	0.254	0.253	0.254	71.46067	71.57303	71.46067					
1500	0.89	0.211	0.211	0.212	76.29213	76.29213	76.17978					

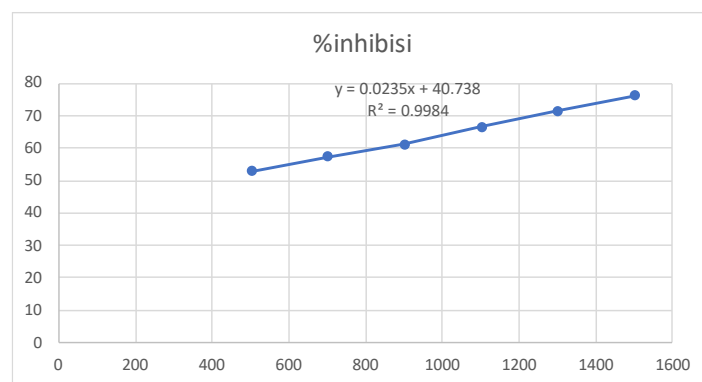
Replikasi 1



Replikasi 2



Replikasi 3



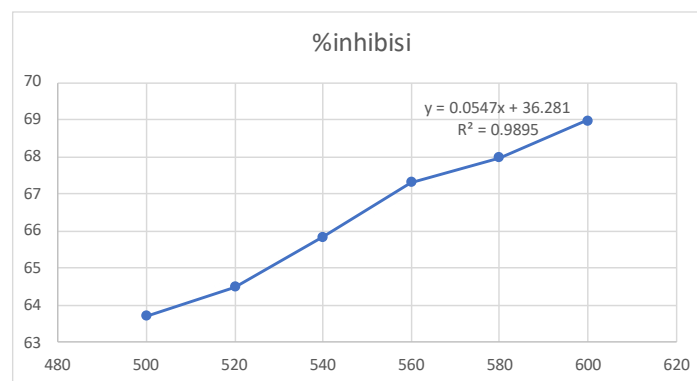
Lampiran 11. Antioksidan Formula 3**Data Hasil Aktivitas Antioksidan Formula 3**

Konsentrasi	%inhibisi	Absorban	Absorban Kontrol (70 ppm)			
500	63.70787	0.323	0.89			
520	64.49438	0.316	0.89			
540	65.8427	0.304	0.89			
560	67.30337	0.291	0.89			
580	67.97753	0.285	0.89			
600	68.98876	0.276	0.89			

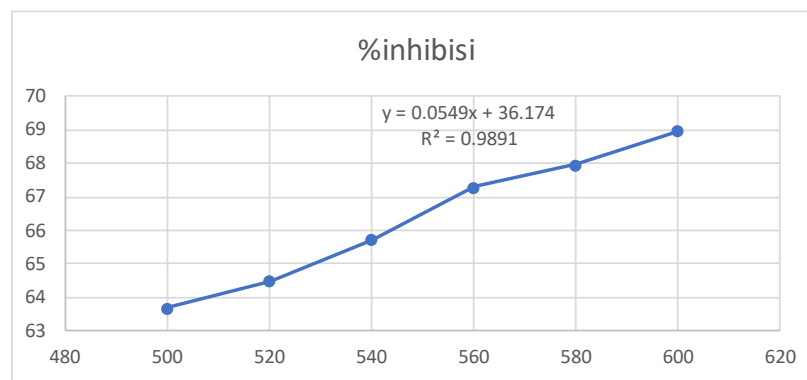
Konsentrasi	Abs Kontrol	Abs Sampel			% Inhibisi			IC50			Rata-rata IC50	SD
		1	2	3	1	2	3	1	2	3		
500	0.89	0.323	0.323	0.323	63.70787	63.70787	63.70787	250.804	251.839	254.792	252.47	± 2.06
520	0.89	0.316	0.316	0.316	64.49438	64.49438	64.49438					
540	0.89	0.304	0.305	0.304	65.8427	65.73034	65.8427					
560	0.89	0.291	0.291	0.291	67.30337	67.30337	67.30337					

580	0.89	0.285	0.285	0.285	67.97753	67.97753	67.97753					
600	0.89	0.276	0.276	0.275	68.98876	68.98876	69.10112					

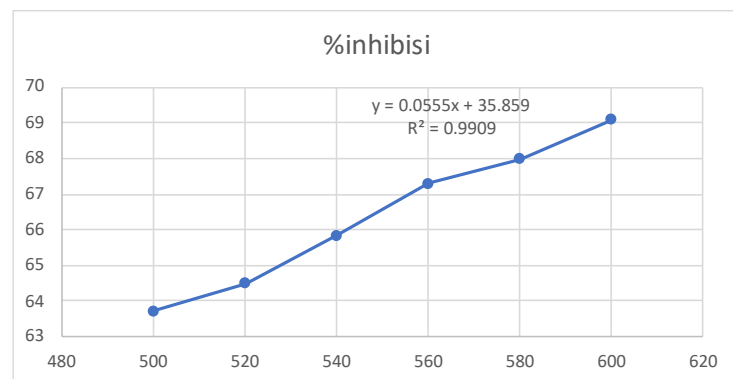
Replikasi 1



Replikasi 2



Replikasi 3



Lampiran 12. CEK TURNITIN

[turnitin] LUCYA DIANA PUTRI			
ORIGINALITY REPORT			
9%	9%	3%	4%
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Lampiran 13. Daftar riwayat hidup



Nama : Lucya diana putri arlan
 Tempa/tangga lahir : Pangkal Pinang, 05 Maret 2002
 Jenis kelamin : Perempuan
 Agama : Islam
 Kewarganegaraan : Indonesia
 Alamat : Perumahan Karunia Indah blok g2 no.20
 Kec. Sukabumi Indah, kota bandar lampung
 Telepon : 0895806050578
 Email : Lucyadianaputriputri@gmail.com

PENDIDIKAN

SD : SD NEGERI 1 SAWAH LAMA
 SMP : SMP NEGERI 24 BANDAR LAMPUNG
 SMK : SMK FARMASI CENDIKIA FARMA HUSADA
 S1 : UNIVERSITAS BHAKTI KENCANA

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