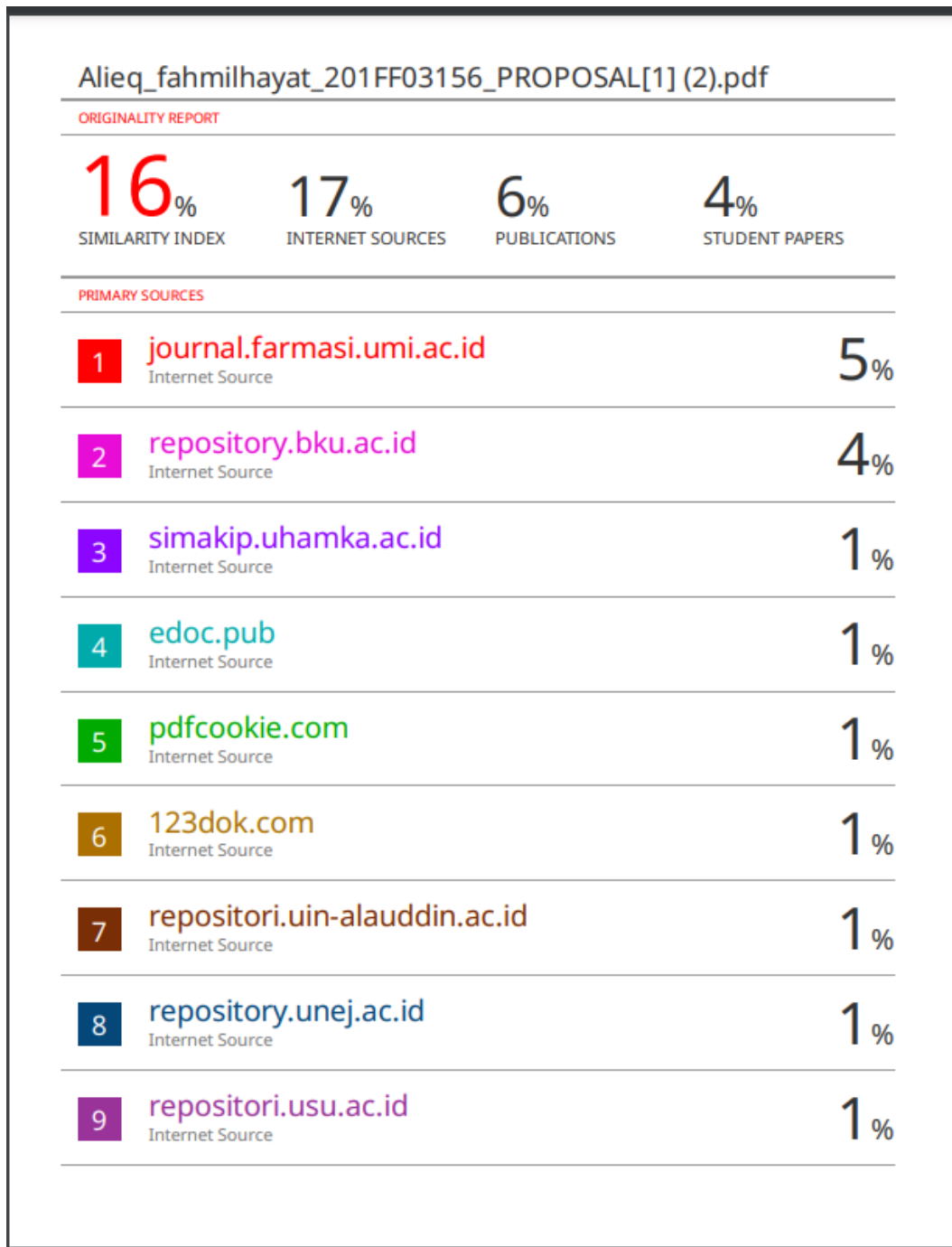


LAMPIRAN

Lampiran 1 plagiarisme



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Lampiran 2 Surat determinasi



INSTITUT TEKNOLOGI BANDUNG

SEKOLAH ILMU DAN TEKNOLOGI HAYATI

Gedung Labtek XI, Jalan Ganesa No.10, Bandung 40132, Telp.: +6222 2511575, Fax.: +6222 2534107
e-mail: sith@itb.ac.id situs: www.sith.itb.ac.id

Nomor : 3946/IT1.C11.2/TA.00/2024
Hal : Determinasi tumbuhan

28 Juni 2024

Yth. Dekan
Fakultas Farmasi
Universitas Bhakti Kencana
Jalan Soekarno Hatta No. 754
Bandung

Memperhatikan permintaan Saudara dalam surat No. 0041/03.FF.03/UBK/I/2024 tanggal 10 Januari 2024 mengenai determinasi tumbuhan, dengan ini kami sampaikan bahwa setelah dilakukan pendeterminasian oleh staf kami, sampel tumbuhan yang dikirim oleh Sdr. Alieq Fahmilhayat (NPM: 201FF03156), yaitu:

No	Nama sampel	Hasil determinasi	Famili
1.	Kitolod	<i>Hippobroma longiflora</i> (L.) G.Don	Campanulaceae

Referensi:

1. Backer C. A., Bakhuizen van den Brink, R. C. (1965). *Flora of Java. Vol II*. N.V.P. Noordhoff.
2. POWO (2024). "Plants of the World Online. Facilitated by the Royal Botanic Gardens, Kew. Published on the Internet; <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:1212081-2> Retrieved 28 June 2024."

Demikian yang kami sampaikan. Atas perhatian dan kerjasama yang diberikan, kami ucapkan terima kasih.



Wakil Dekan Bidang Sumber Daya,
Angga Dwiartama, S.Si., M.Si., Ph.D.
NIP. 198302052012121002

Tembusan:
1. Dekan SITH ITB

Terakreditasi oleh:





Lampiran 3 Ekstraksi

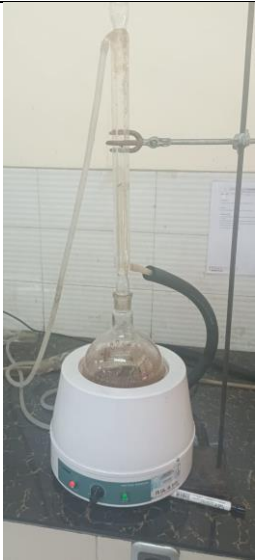
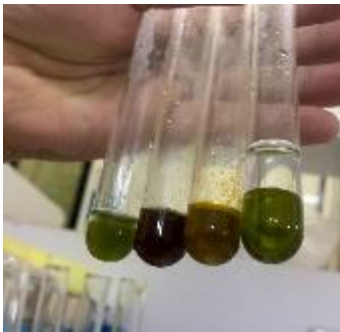
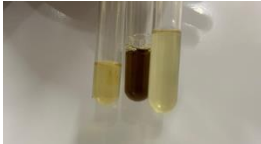
	
Foto ekstrak daun dan batang	Foto ekstrak bunga dan akar
	
Tumbuhan Ki tolod	Grinder
	
Refluks	Proses oven
	
Rotary evaporator	

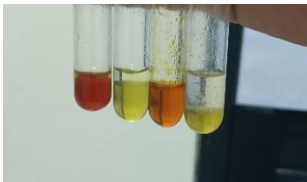
Foto karakteristik	
	
Kadar abu	Kadar abu larut asam
	
Kadar air larut etanol	Kadar sari larut air
	
Susut pengeringan	Kadar air

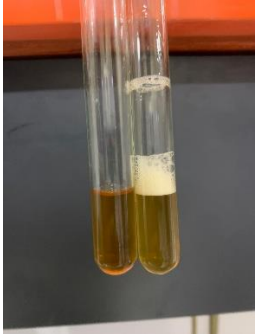
Lampiran 4 Skrining fitokimia

Skrining fitokimia	
Alkaloid daun	Alkaloid batang
	
Flavonoid daun dan daun	

	
 Tanin daun	 Tanin batang
 Saponin daun	 Saponin batang

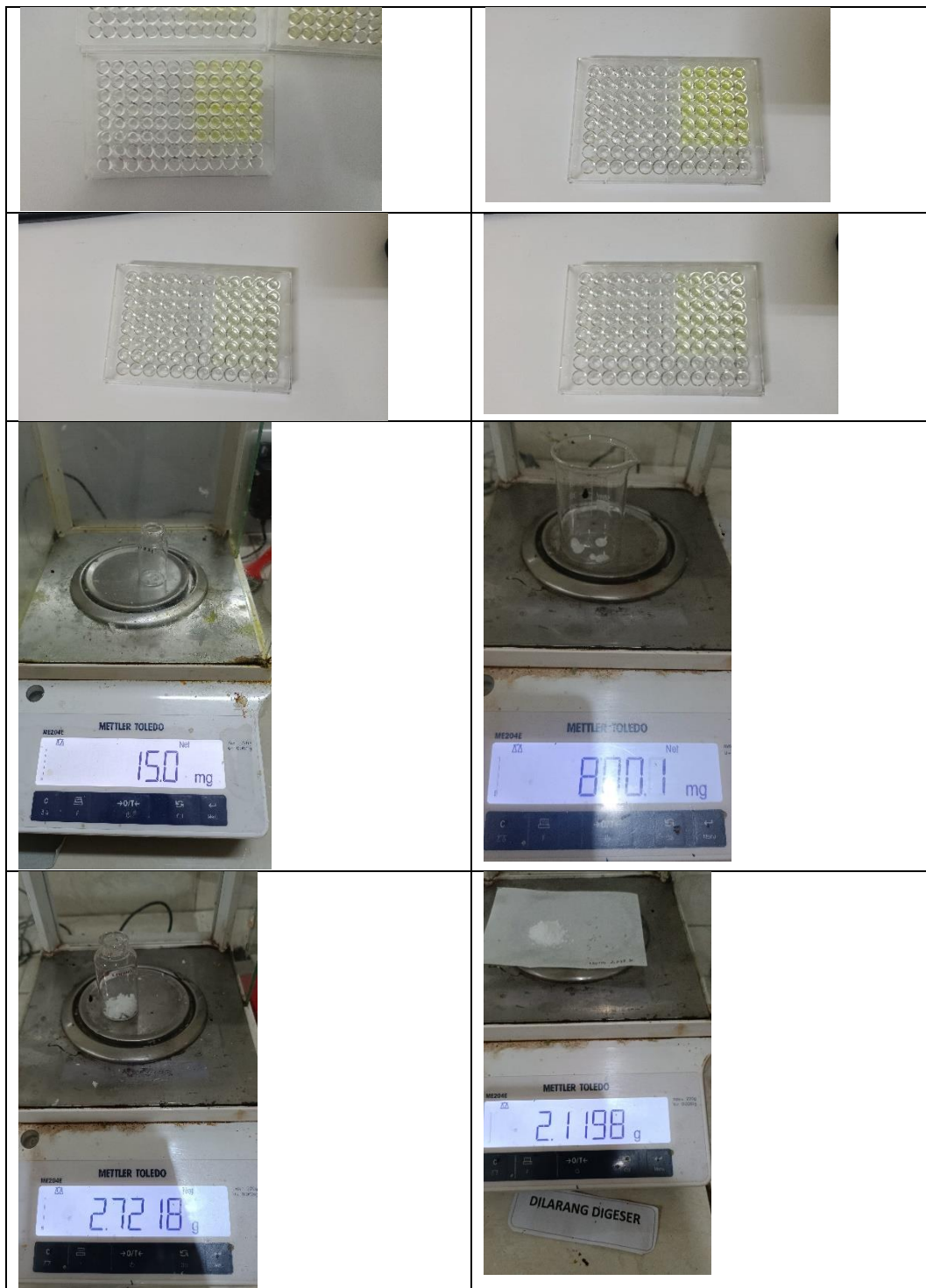
Lampiran 5 Skrining fitokimia

Skrining fitokimia	
 Alkaloid bunga	 Alkaloid akar

 Flavonoid bunga	 Flavonoid akar
 Tanin bunga	 Tanin akar
 Saponin Bunga	 Saponin Akar

Lampiran 6 Pengujian enzim,sampel dan akarbosa

Pengujian enzim,sampel dan akarbosa	
	



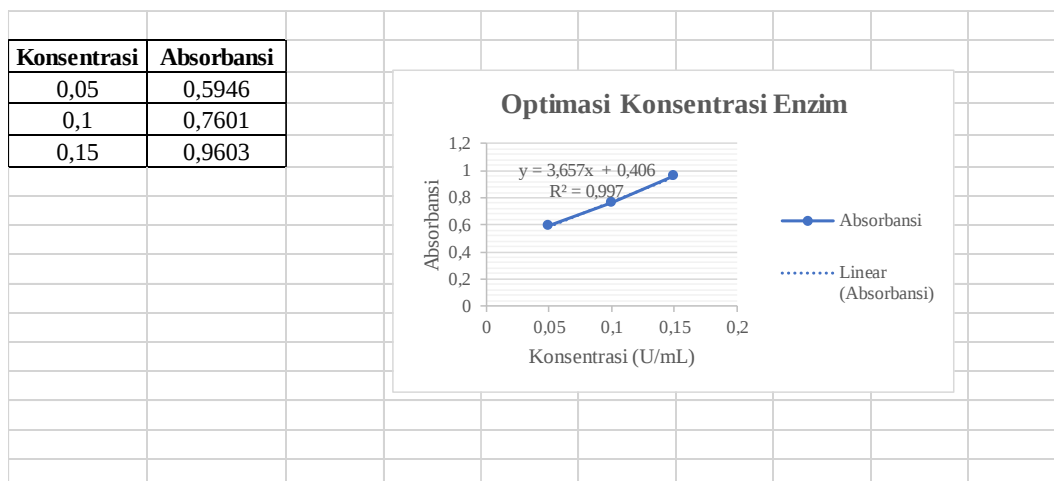
0,0788	0,0766	0,0750	0,0782	0,0739		0,2502	0,2899	0,3143	0,3071	0,2838
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0612	0,0665	0,0671	0,0798	0,0759		0,2835	0,2834	0,2778	0,2555	0,2162
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0904	0,0671	0,0647	0,0592	0,0853		0,3027	0,2736	0,3246	0,2967	0,2505
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0915	0,1002	0,0978	0,1016	0,1003		0,2501	0,2450	0,2677	0,3336	0,3026
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,1037	0,0644	0,0900	0,0956	0,0957		0,1010	0,0997	0,0913	0,0903	0,1093
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0968	0,1103	0,0998	0,1002	0,1117		0,2613	0,3000	0,3081	0,2801	0,0976
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0784	0,0753	0,1405	0,2538	0,3204		0,3211	0,3193	0,3117	0,3217	0,2688
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1

0,0788	0,0766	0,0750	0,0782	0,0739		0,2502	0,2899	0,3143	0,3071	0,2838
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0612	0,0665	0,0671	0,0798	0,0759		0,2835	0,2834	0,2778	0,2555	0,2162
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0904	0,0671	0,0647	0,0592	0,0853		0,3027	0,2736	0,3246	0,2967	0,2505
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0915	0,1002	0,0978	0,1016	0,1003		0,2501	0,2450	0,2677	0,3336	0,3026
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,1037	0,0644	0,0900	0,0956	0,0957		0,1010	0,0997	0,0913	0,0903	0,1093
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0968	0,1103	0,0998	0,1002	0,1117		0,2613	0,3000	0,3081	0,2801	0,0976
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0784	0,0753	0,1405	0,2538	0,3204		0,3211	0,3193	0,3117	0,3217	0,2688
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1

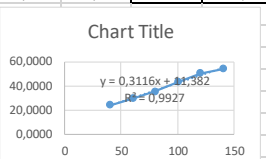
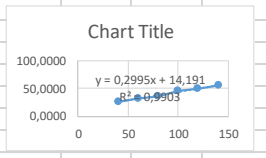
0,0788	0,0766	0,0750	0,0782	0,0739		0,2502	0,2899	0,3143	0,3071	0,2838
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0612	0,0665	0,0671	0,0798	0,0759		0,2835	0,2834	0,2778	0,2555	0,2162
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0904	0,0671	0,0647	0,0592	0,0853		0,3027	0,2736	0,3246	0,2967	0,2505
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0915	0,1002	0,0978	0,1016	0,1003		0,2501	0,2450	0,2677	0,3336	0,3026
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,1037	0,0644	0,0900	0,0956	0,0957		0,1010	0,0997	0,0913	0,0903	0,1093
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0968	0,1103	0,0998	0,1002	0,1117		0,2613	0,3000	0,3081	0,2801	0,0976
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1
0,0784	0,0753	0,1405	0,2538	0,3204		0,3211	0,3193	0,3117	0,3217	0,2688
Rank1	Rank1	Rank1	Rank1	Rank1		Rank1	Rank1	Rank1	Rank1	Rank1

Lampiran 7 Perhitungan IC50

Enzim



Daun

Replikasi 1									a	b	y	IC50	rata-rata IC ₅₀	SD
K	BK	Kontrol	onsentras	S	BS	Sampel	Final Kons	%inhibisi	9,5621	0,3354	50	123,934		
0,2902	0,0689	0,2213	100	0,2670	0,0992	0,1678	40	24,1753	Chart Title 					
			150	0,2655	0,1098	0,1557	60	29,6430						
			200	0,2559	0,1131	0,1428	80	35,4722						
			250	0,2699	0,1439	0,1260	100	43,0637						
			300	0,2538	0,1439	0,1099	120	50,3389						
			350	0,2147	0,1126	0,1021	140	53,8635						
Replikasi 2									a	b	y	IC50		
K	BK	Kontrol	onsentras	S	BS	Sampel	Final Kons	%inhibisi	14,191	0,299	50	119,562		
0,2902	0,0689	0,2213	100	0,2607	0,0976	0,1631	40	26,2991	Chart Title 					
			150	0,2592	0,1101	0,1491	60	32,6254						
			200	0,2450	0,1040	0,1410	80	36,2856						
			250	0,2641	0,1439	0,1202	100	45,6846						
			300	0,2623	0,1519	0,1104	120	50,1130						
			350	0,2450	0,1473	0,0977	140	55,8518						

Batang

Replikasi 1									a	b	y	IC50	rata-rata IC	SD
K	BK	Kontrol	onsentras	S	BS	Sampel	Final Kons	%inhibisi	-12,894	0,4738	50	132,743		
0,7004	0,0743	0,6261	100	0,6026	0,0108	0,5918	40	5,4784	100,000 50,000 0,000 Chart Title $y = 0,4738x - 12,894$ $R^2 = 0,9941$ 0 50 100 150					
			150	0,5891	0,0550	0,5341	60	14,6941						
			200	0,4734	0,0110	0,4624	80	26,1460						
			250	0,4535	0,0470	0,4065	100	35,0743						
			300	0,3533	0,0129	0,3404	120	45,6317						
			350	0,3196	0,0157	0,3039	140	51,4614						
Replikasi 2									a	b	y	IC50	122,4885	14,5021
K	BK	Kontrol	onsentras	S	BS	Sampel	Final Kons	%inhibisi	-21,911	0,6407	50	112,234		
0,7004	0,0743	0,6261	100	0,6547	0,0550	0,5997	40	4,2166	100,000 50,000 0,000 Chart Title $y = 0,6407x - 21,911$ $R^2 = 0,9939$ 0 50 100 150					
			150	0,5531	0,0330	0,5201	60	16,9302						
			200	0,4635	0,0108	0,4527	80	27,6953						
			250	0,3827	0,0129	0,3698	100	40,9360						
			300	0,2733	0,0123	0,2610	120	58,3134						
			350	0,2396	0,0295	0,2101	140	66,4431						

Bunga

Akarbosa

Replikasi 1									a	b	y	IC50	rata-rata IC50	SD
K	BK	Kontrol	Konsentras	S	BS	Sampel	Final Kons	%inhibisi	-39,741	0,5841	50	153,6398		
0,4409	0,0631	0,3778	240	0,3916	0,0741	0,3175	96	15,9608						
			280	0,3445	0,0746	0,2699	112	28,5601						
			320	0,3331	0,0733	0,2598	128	31,2335						
			360	0,2851	0,0767	0,2084	144	44,8385						
			400	0,2509	0,0792	0,1717	160	54,5527						
Replikasi 2									a	b	y	IC50	rata-rata IC50	SD
K	BK	Kontrol	Konsentras	S	BS	Sampel	Final Kons	%inhibisi	-40,867	0,5819	50	156,1557		
0,4343	0,0631	0,3712	240	0,3886	0,0742	0,3144	96	15,3017						
			280	0,3540	0,0741	0,2799	112	24,5959						
			320	0,3188	0,0735	0,2453	128	33,9170						
			360	0,2954	0,0735	0,2219	144	40,2209						
			400	0,2473	0,0767	0,1706	160	54,0409						
Replikasi 3									a	b	y	IC50	rata-rata IC50	SD
K	BK	Kontrol	Konsentras	S	BS	Sampel	Final Kons	%inhibisi	-32,901	0,5318	50	155,8876		
0,4395	0,0634	0,3761	240	0,3787	0,0754	0,3033	96	19,3566						
			280	0,3448	0,0733	0,2715	112	27,8118						
			320	0,3417	0,0726	0,2691	128	28,4499						
			360	0,2651	0,0726	0,1925	144	48,8168						
			400	0,2563	0,0735	0,1828	160	51,3959						

Lampiran 8 Perhitungan

- KH_2PO_4 0,2 M

$$M = \frac{g}{Mr} \times \frac{1000}{v}$$

$$g = \frac{M \times Mr \times v}{1000}$$

$$g = \frac{0,2 \times 136,09 \times 100}{1000}$$

$g = 2,7218 \text{ g}$ dilarutkan dalam aquadest bebas CO_2 ad 100ml

- NaOH 0,2 M

$$M = \frac{g}{Mr} \times \frac{1000}{v}$$

$$g = \frac{M \times Mr \times v}{1000}$$

$$g = \frac{0,2 \times 40 \times 100}{1000}$$

$g = 0,8 \text{ g}$ dilarutkan dalam aquadest bebas CO_2 ad 100ml

- NaOH 0,2 M

$$M = \frac{g}{Mr} \times \frac{1000}{v}$$

$$g = \frac{M \times Mr \times v}{1000}$$

$$g = \frac{0,2 \times 105,99 \times 100}{1000}$$

g= 2,1198g dilarutkan dalam aquadest bebas CO₂ ad 100ml

Lampiran 9 Kartu bimbingan

[illegible]

Lampiran 10 Daftar riwayat hidup

DAFTAR RIWAYAT HIDUP



Nama : Alieq fahmilhayat

Npm : 201FF03156

Tempat, tanggal lahir : Majalengka, 10 juni 2002

Alamat : jalan Letnan Udju, gang Haji Agus salim Dusun
Cibungur Rt. 15 Rw. 05, Desa Cintamulya, Kec.
Jatinangor Kab. Sumedang, Jawa
Barat Kode Pos 45363

Email : 201ff03156@bku.ac.id

No : 08997705907

Riwayat Pendidikan

- | | |
|------------------------------|-------------------|
| 1. SDN MEKAR WANGI | : 2008 - 2014 |
| 2. SMP 1 JATINANGOR | : 2014 - 2017 |
| 3. SMAN JATINANGOR | : 2017 - 2020 |
| 4. UNVERSITAS BHAKTI KENCANA | : 2020 – sekarang |
| PROGRAM SARJANA FARMASI | |