

Lampiran 1 Hasil Determinasi (*Centella asiatica*)

INSTITUT TEKNOLOGI BANDUNG

SEKOLAH ILMU DAN TEKNOLOGI HAYATI

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Nomor : 6543/IT1.C11.2/TA.00/2021
Hal : Determinasi tumbuhan

13 Desember 2021

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

Memperhatikan surat permintaan Saudara dalam surat No. 1288/03.FF/UBK/XI/2021 tanggal 29 November 2021 mengenai determinasi tumbuhan, dengan ini kami sampaikan bahwa setelah dilakukan determinasi oleh staf kami, sampel tumbuhan yang dikirim oleh Sdr. Desti Astriyani (NPM: 11181198), adalah :

No	Nama sampel	Hasil determinasi	Famili
1	Pegagan	<i>Centella asiatica</i> (L.) Urb.	Apiaceae

Referensi:

1. Backer, C.A., & Bakhuizen van den Brink, R.C. (1965). *Flora of Java*. Vol. II. Groningen, The Netherlands: NVP Noordhoff. pp. 173.

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



Wakil Dekan Bidang Sumber Daya,

Dr. Angga Dwiartama

NIP. 198302052012121002

Tembusan:
Dekan SITH ITB, sebagai laporan.

Terakreditasi oleh :



Lampiran 2 Perhitungan Karakterisasi Simplisia

1. Perhitungan Kadar Air (daerah Bogor)

$$\text{kadar air} = \frac{\text{volume akhir-volume awal}}{\text{berat simplisia}} \times 100\%$$

$$\text{kadar air} = \frac{2,05-2}{2} \times 100\%$$

$$\text{kadar air} = 2,5 \% \text{ v/b}$$

2. Perhitungan Kadar Sari Larut Air (daerah Bandung)

$$\text{kadar sari larut air} = \frac{\text{berat ekstrak} \times 5}{\text{berat simplisia}} \times 100\%$$

$$\text{kadar sari larut air} = \frac{(65,42-65,50) \times 5}{2} \times 100\%$$

$$\text{kadar sari larut air} = 35 \% \text{ b/b}$$

3. Perhitungan Kadar Sari Larut Etanol (daerah Sukabumi)

$$\text{kadar sari larut etanol} = \frac{\text{berat ekstrak} \times 5}{\text{berat simplisia}} \times 100\%$$

$$\text{kadar sari larut etanol} = \frac{(115,31-115,20) \times 5}{2} \times 100\%$$

$$\text{kadar sari larut etanol} = 27,5 \% \text{ b/b}$$

4. Perhitungan Kadar Abu Total (Daerah Sumedang)

$$\text{kadar abu total} = \frac{\text{berat abu sisa pijar}}{\text{berat simplisia}} \times 100\%$$

$$\text{kadar abu total} = \frac{32,72-32,55}{5} \times 100\%$$

$$\text{kadar abu total} = 11 \% \text{ b/b}$$

5. Perhitungan Kadar Abu Tidak Larut Asam (daerah Bogor)

$$\text{kadar abu tidak larut asam} = \frac{\text{berat abu sisa pijar}}{\text{berat simplisia}} \times 100\%$$

$$\text{kadar abu tidak larut asam} = \frac{32,58-32,53}{5} \times 100\%$$

$$\text{kadar abu tidak larut asam} = 1 \% \text{ b/b}$$

6. Perhitungan Kadar Abu Larut Air (daerah Pangandaran)

$$\text{kadar abu tidak larut asam} = \frac{\text{berat abu sisa pijar}}{\text{berat simplisia}} \times 100\%$$

$$\text{kadar abu tidak larut asam} = \frac{33,32-33,21}{5} \times 100\%$$

$$\text{kadar abu tidak larut asam} = 2,2 \% \text{ b/b}$$

Lampiran 3 Perhitungan Rendemen Ekstrak

$$\% \text{ Rendemen} = \frac{\text{berat ekstrak}}{\text{berat simplisia}} \times 100\%$$

$$1. \text{ Pegagan Sukabumi} = \% \text{ Rendemen} = \frac{22,84}{100 \text{ g}} \times 100\% = 22,84 \%$$

$$2. \text{ Pegagan Bogor} = \% \text{ Rendemen} = \frac{24,37 \text{ g}}{100 \text{ g}} \times 100\% = 24,37 \%$$

$$3. \text{ Pegagan Bandung} = \% \text{ Rendemen} = \frac{15,71}{100 \text{ g}} \times 100\% = 15,71 \%$$

$$4. \text{ Pegagan Sumedang} = \% \text{ Rendemen} = \frac{15,35}{100 \text{ g}} \times 100\% = 15,35 \%$$

$$5. \text{ Pegagan Pangandaran} = \% \text{ Rendemen} = \frac{21,63 \text{ g}}{100 \text{ g}} \times 100\% = 21,63 \%$$

Lampiran 4 Skrining Fitokimia

PENGUJIAN	PEREAKSI	SAMPOL										KETERANGAN HASIL POSITIF
		SIMPLISIA					EKSTRAK					
		BDG	SMD	BGR	PGND	SKB	BDG	SMD	BGR	PGND	SKB	
Alkaloid	Mayer	-	-	-	-	-	-	-	-	-	-	(+) endapan putih
	Dragendroff	-	-	-	-	-	-	-	-	-	-	(+) endapan merah bata
Flavonoid	Mg+HCl:etanol 1:1 + amil alcohol	+	+	+	+	+	+	+	+	+	+	(+) berwarna jingga/ merah pada lapisan amil
Saponin	HCl 1N	+	+	+	+	+	+	+	+	+	+	(+) busa stabil ± 1 cm
Kuinin	NaOH	+	+	+	+	+	+	+	+	+	+	(+) merah
Tanin	FeCl	+	+	+	+	+	+	+	+	+	+	(+) hijau kehitaman
	Gelatin	-	-	-	-	-	-	-	-	-	-	(+) endapan putih
Steroid/triterpenoid	<i>Liebermann- Burchard</i>	+	+	+	+	+	+	+	+	+	+	(+) steroid = biru hijau (+) triterpenoid = ungu

Lampiran 5 Penetapan Kadar Flavonoid Total

Konsentrasi	ABS 1	ABS 2	ABS 3	Rata Rata ABS
50	0.2513	0.25151	0.25124	0.25135
60	0.33662	0.33749	0.33818	0.33743
70	0.40868	0.40643	0.4062	0.40710
80	0.49536	0.49588	0.49559	0.49561
90	0.57825	0.5799	0.58168	0.57994
100	0.67831	0.65697	0.64487	0.66005
110	0.72984	0.72993	0.72971	0.72983
120	0.80394	0.8038	0.81462	0.80745

Persamaan Kurva	$y = 0.008x - 0.1442$
b =	0.008
a =	0.1442
R =	0.9993

Tabel 1 Penetapan Kadar Flavonoid

Nama	Bobot sampel (gram)	Volume labu (L)	Faktor pengenceran	ABS 1	ABS 2	ABS 3	Rata2 ABS	Konsentrasi Flavonoid (mg/L)	mg/g	SD	gr kuersetin/gr ekstrak kental
Manoko	0,025	0,01	4	0,489	0,490	0,492	0,490	79,275	126,84	0,346	12,684
Sumedang	0,025	0,01	4	0,386	0,389	0,390	0,388	69,763	111,620	0,565	11,162
Sukabumi	0,025	0,01	4	0,391	0,393	0,401	0,395	67,4	107,84	1,058	10,784
Bogor	0,025	0,01	4	0,364	0,365	0,363	0,364	63,525	101,64	0,200	10,164
Pangandaran	0,025	0,01	4	0,357	0,357	0,366	0,360	63,025	100,84	1,039	10,084

Lampiran 6 Penetapan Kadar Fenolat Total

Konsentrasi	ABS 1	ABS 2	ABS 3	Rata rata ABS
50	0.28281	0.29285	0.29800	0.29122
60	0.33215	0.33313	0.33983	0.33504
70	0.39093	0.39191	0.39156	0.39147
80	0.45334	0.45329	0.45325	0.45329
90	0.49687	0.49684	0.49687	0.49686
100	0.54703	0.54909	0.55879	0.55164
110	0.63785	0.63817	0.63745	0.63782
120	0.70224	0.70324	0.70464	0.70337

Persamaan Kurva	$y = 0.0059x - 0.0156$
b =	0.0059
a =	0.0156
R =	0.9924

Tabel 2 Penetapan Kadar fenolat total

Nama	Bobot sampel (gram)	Volume labu (L)	Faktor pengenceran	ABS 1	ABS 2	ABS 3	ABS	Konsentrasi Fenolik (mg/L)	mg/g	SD	gr asam galat/gr ekstrak kental
Manoko	0,025	0,01	4	0,467	0,475	0,472	0,472	87,051	139,281	1,253	13,928
Sumedang	0,025	0,01	4	0,480	0,488	0,486	0,486	78,775	126,04	0,987	12,604
Sukabumi	0,025	0,01	4	0,421	0,431	0,432	0,428	76,373	122,197	1,722	12,220
Bogor	0,025	0,01	4	0,376	0,379	0,382	0,379	75,017	120,027	0,814	12,003
Pangandaran	0,025	0,01	4	0,413	0,414	0,413	0,413	70,102	112,163	0,157	11,216

Lampiran 7 Penetapan Kadar Asiatikosida

Konsentrasi	AUC
15.62	2,902
31.25	11,832
62.5	23,090
125	45,766
250	106,088
500	213,197
1000	481,880

Tabel 3 Penetapan Kadar Asiatikosida

Nama sampel	Ekstrak kering %	Berat	Volume	Luas area	Mg/L	Mg/g	mg/gr ekstrak %
Manoko	85,04	0,504	0,01	719,605	1513,30	30,0257	3,00
Sumedang	83,12	0,513	0,01	770,125	1618,03	31,54055	3,15
Sukabumi	75,54	0,517	0,01	382,729	814,90	15,76216	1,58
Bogor	73,39	0,53	0,01	383,740	817,00	15,41509	1,54
Pangandaran	79,61	0,51	0,01	1,020,987	2138,10	41,92357	4,19

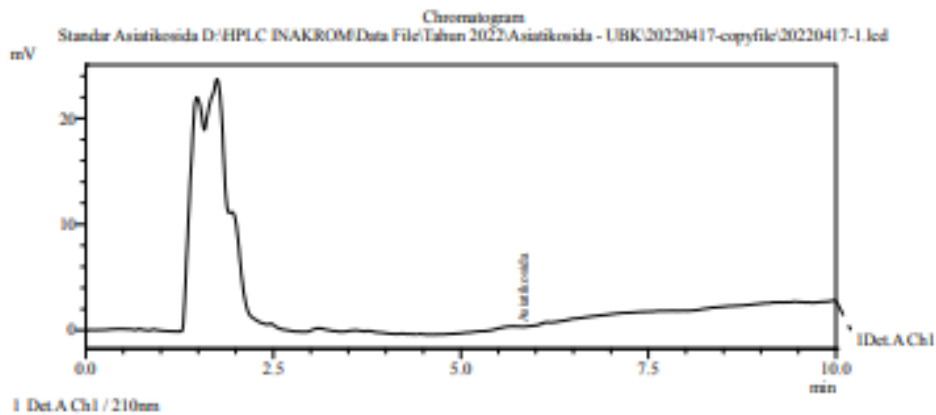
Lampiran 8 Hasil Kromatogram Standar Asiatikosida 15,62 ppm



ANALYSIS REPORT

Sample Information
Acquired by : Yusuf Eka Maulana
Sample Name : Standar Asiatikosida
Sample ID : 15,62 mg/l
Vial# : 1
Injection Volume : 20 µL
Data Filename : 20220417-1.lcd
Method Filename : Kondisi 1 As Ortofosfat 0_1 ACN 50_50.lcm
Batch Filename : 20220417-B.lch
Report Filename : Default.lcr
Date Acquired : 17/04/2022 13:56:48
Data Processed : 16/05/2022 11:15:39

<Chromatogram>



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ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	tailing Factor	K'
1	Asiatikosida	5.687	2902	35.351	2787.850	6.82	0.757	0.839

Lampiran 9 Hasil Kromatogram Standar Asiatikosida 31,25 ppm



PT INAKROM TEKNOLOGI ANALITIKA

Laboratory supply - Consumable LC GC - Reagent - Instrument - Analysis

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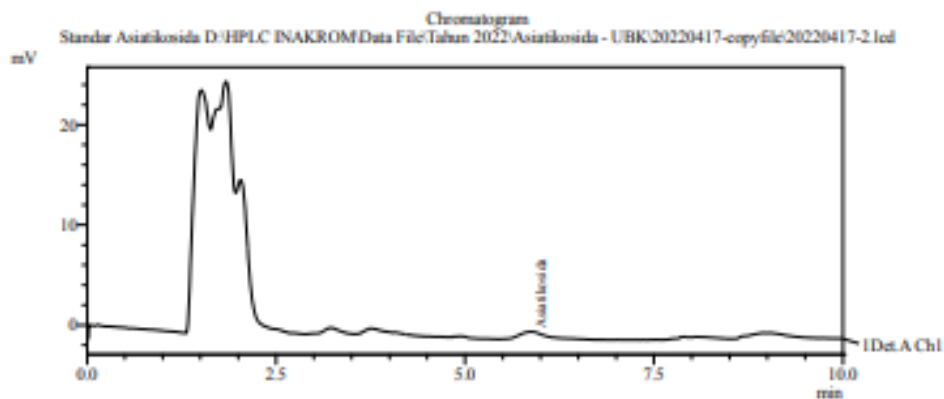
Hp. 0896 7768 8680, E-mail : pt.inakrom@gmail.com

ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
 Sample Name : Standar Asiatikosida
 Sample ID : 31,25 mg/l
 Vial# : 2
 Injection Volume : 20 µL
 Data Filename : 20220417-2.lcd
 Method Filename : Kondisi 1 As Ortofosfat 0_1 ACN 50_50.lcm
 Batch Filename : 20220417-B.lcb
 Report Filename : Default.lcr
 Date Acquired : 17/04/2022 14:08:22
 Data Processed : 16/05/2022 11:17:24

<Chromatogram>



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Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	Tailing Factor	k'
1	Asiatikosida	5.862	11832	44.542	2183.113	6.06	1.190	0.817

Lampiran 10 Hasil Kromatogram Standar Asiatikosida 62,5 ppm

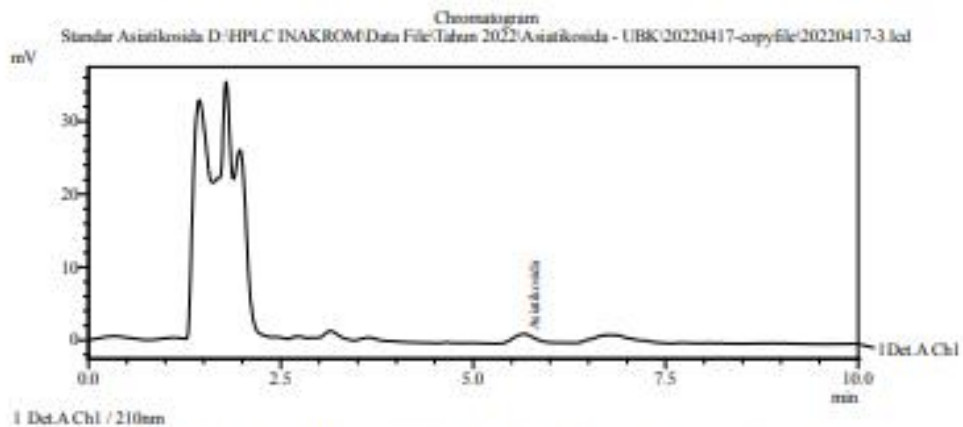


ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Mandana
Sample Name : Standar Asiatikosida
Sample ID : 62,5 mg/l
Vial# : 3
Injection Volume : 20 uL
Data Filename : 20220417-3.lcd
Method Filename : Kondisi 1 As OrtoIsoput 0_1 ACN 50_50.lcm
Batch Filename : 20220417-8.lcm
Report Filename : Default.lcr
Date Acquired : 17/04/2022 14:19:55
Data Processed : 16/05/2022 11:19:09

<Chromatogram>



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Detector A

ID#	Name	Ret. Time	Area	Area %	Theoretical Plate	Resolution	Tailing Factor	k'
1	Asiatikosida	5.647	23090	35.574	1980.927	5.98	1.177	0.797

Lampiran 11 Hasil Kromatogram Standar Asiatikosida 125 ppm



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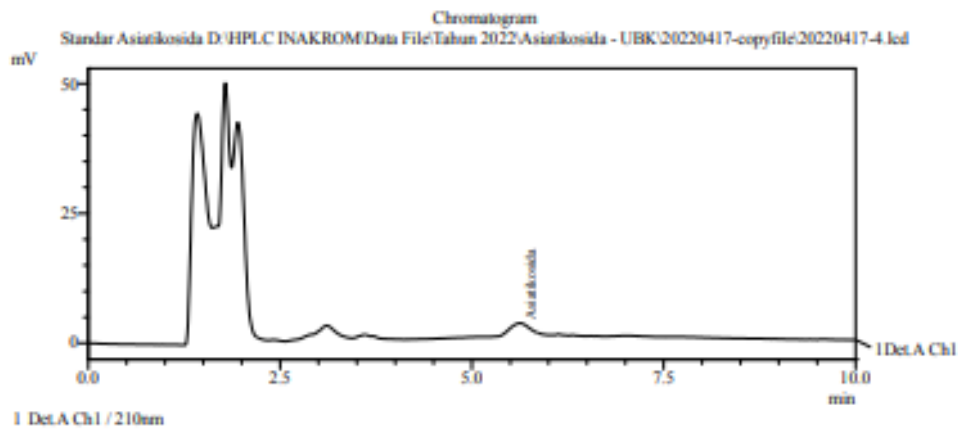
Hp. 0896 7768 8680, E-mail : pt.inakrom@gmail.com

ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
 Sample Name : Standar Asiatikosida
 Sample ID : 125 mg/l
 Vial : 4
 Injection Volume : 20 uL
 Data Filename : 20220417-4.lcd
 Method Filename : Kondisi 1 As Otofospat 0_1 ACN 50_50.lcm
 Batch Filename : 20220417-B.lcb
 Report Filename : Default.lcr
 Date Acquired : 17/04/2022 14:31:28
 Data Processed : 16/05/2022 11:21:03

<Chromatogram>



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Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	Tailing Factor	K'
1	Asiatikosida	5.625	45766	54.411	2019.022	5.67	1.140	0.812

Lampiran 12 Hasil Kromatogram Standar Asiatikosida 250 ppm

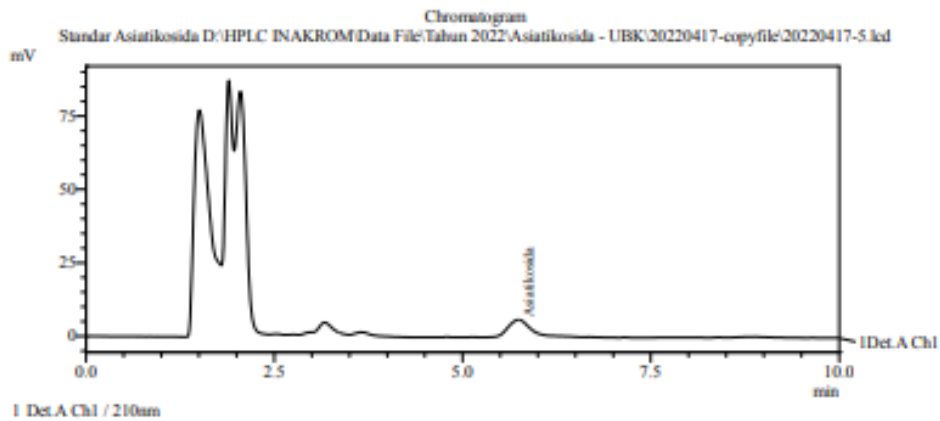


ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : Standar Asiatikosida
Sample ID : 250 mg/l
Vial# : 5
Injection Volume : 20 µL
Data Filename : 20220417-5.lcd
Method Filename : Kondisi 1 As Onofospat 0_1 ACN 50_50.lcm
Batch Filename : 20220417-B.lcb
Report Filename : Default.lcr
Date Acquired : 17/04/2022 14:43:02
Data Processed : 16/05/2022 11:22:15

<Chromatogram>



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Detector A

ID#	Name	Ret. Time	Area	Area %	heoretical Plate	Resolution	Tailing Factor	k'
1	Asiatikosida	5.736	106088	60.355	2059.945	6.03	1.178	0.811

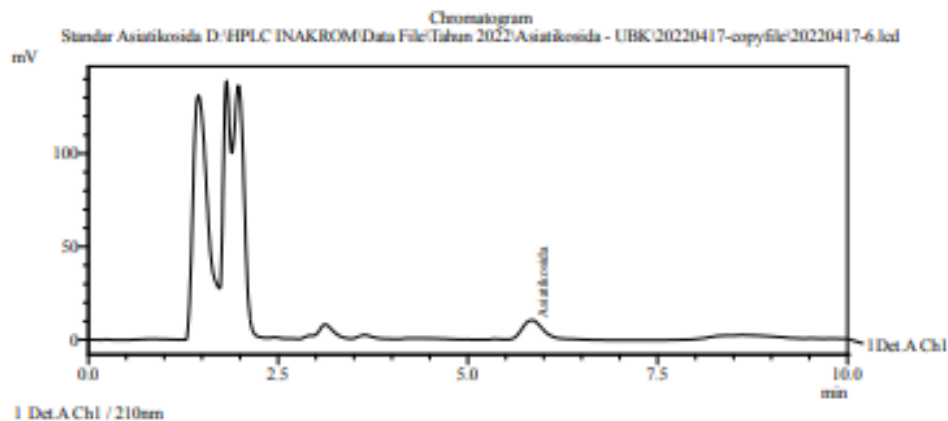
Lampiran 13 Hasil Kromatogram Standar Asiatikosida 500 ppm

**ANALYSIS REPORT**

Sample Information

Acquired by : Yusuf Eka Maulana
 Sample Name : Standar Asiatikosida
 Sample ID : 500 mg/l
 Vial# : 6
 Injection Volume : 20 uL
 Data Filename : 20220417-6.lcd
 Method Filename : Kondisi 1 As Otofospot 0_1 ACN 50_50.lcm
 Batch Filename : 20220417-8.lcb
 Report Filename : Default.lcr
 Date Acquired : 17/04/2022 14:54:34
 Data Processed : 16/05/2022 11:23:31

<Chromatogram>



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ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	Scaling Factor	k'
1	Asiatikosida	5.841	213197	51.354	2180.921	6.38	1.455	0.874

Lampiran 14 Hasil Kromatogram Standar Asiatikosida 1000 ppm



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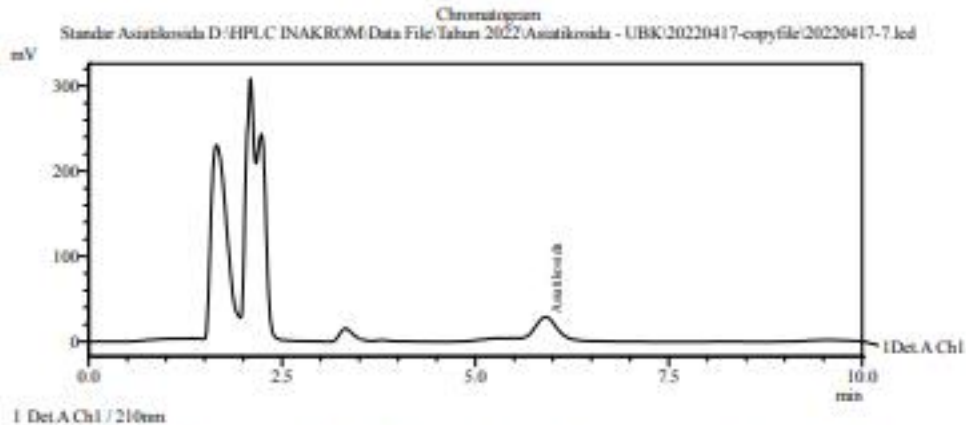
Hp. 0896 7768 8680, E-mail : pt.inakrom@gmail.com

ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : Standar Asiatikosida
Sample ID : 1000 mg/l
Vial# : 7
Injection Volume : 20 µl
Data Filename : 20220417-7.lcd
Method Filename : Kondisi 1 As Otofinput 0_1 ACN 50_50.lcm
Batch Filename : 20220417-B.lch
Report Filename : Default.lcr
Date Acquired : 17/04/2022 15:06:09
Data Processed : 16/05/2022 11:24:53

<Chromatogram>



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Detector A

ID#	Name	Ret. Time	Area	Area %	heoretical Plate	Resolution	tailing Factor	k'
1	Asiatikosida	5.905	481880	67.652	2243.751	6.26	1.165	0.780

Lampiran 15 Hasil Kromatogram Pegagan Pangandaran

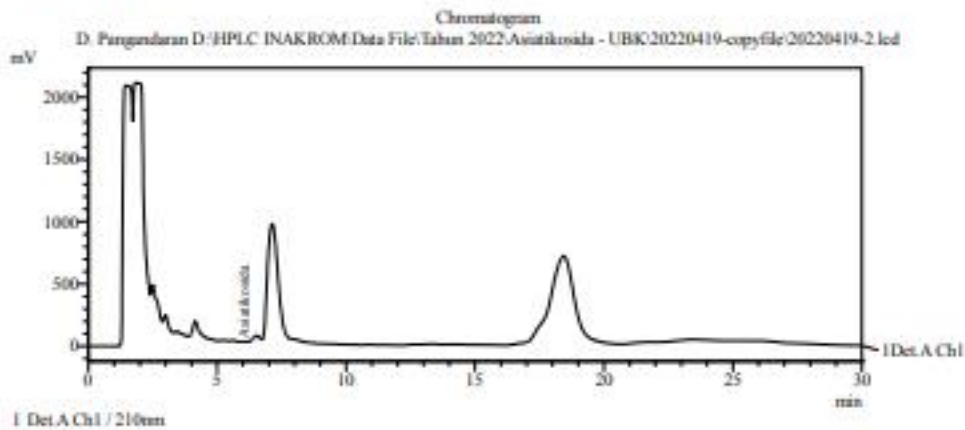


ANALYSIS REPORT

Sample Information

Acquired by: Yusuf Eka Maulana
Sample Name: D. Pangandaran
Sample ID: 0.510 gr
Vial#: 2
Injection Volume: 20 µL
Data Filename: 20220419-2.lcd
Method Filename: Kondisi 1 As Ortosupat 0_1 ACN 50_50.lcm
Batch Filename: 20220419-Desti Zahra.lcb
Report Filename: Default.lcr
Date Acquired: 19/04/2022 14:46:26
Data Processed: 14/05/2022 20:40:09

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Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	tailing Factor	k'
1	Asiatikosida	5.587	1020987	0.601	142.385	2.65	0.000	2.001

Lampiran 16 Hasil Kromatogram Pegagan Sukabumi

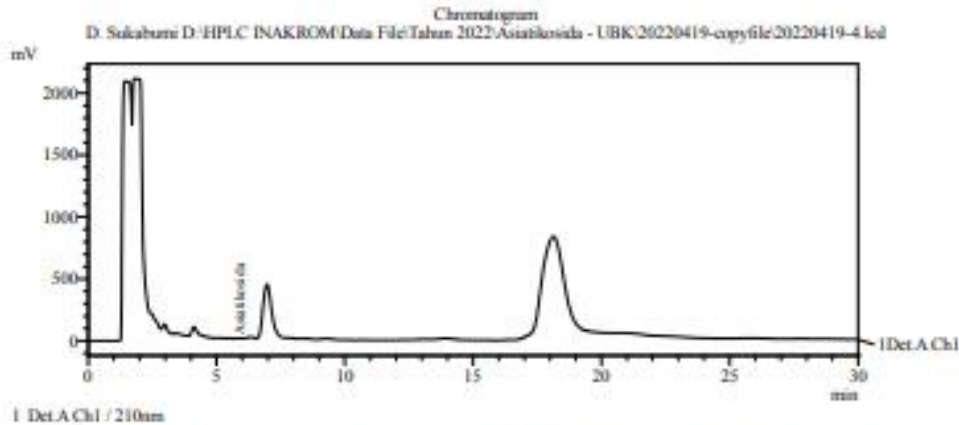


ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : D. Sukabumi
Sample ID : 0.517 gr
Vial# : 4
Injection Volume : 20 µL
Data Filename : 20220419-4.lcd
Method Filename : Kondisi 1 As Otofospur 0_1 ACN 50_50.lcm
Batch Filename : 20220419-Desti Zahra.lcb
Report Filename : Default.lcr
Data Acquired : 19/04/2022 15:49:30
Data Processed : 16/05/2022 10:19:49

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Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	Tailing Factor	k'
1	Asiatikosida	5.469	382780	0.288	41.087	1.70	0.000	2.004

Lampiran 17 Hasil Kromatogram Pegagan Sumedang



PT INAKROM TEKNO LAB ANALITIKA

Laboratory supply - Consumable LC GC - Reagent - Instrument - Analysis

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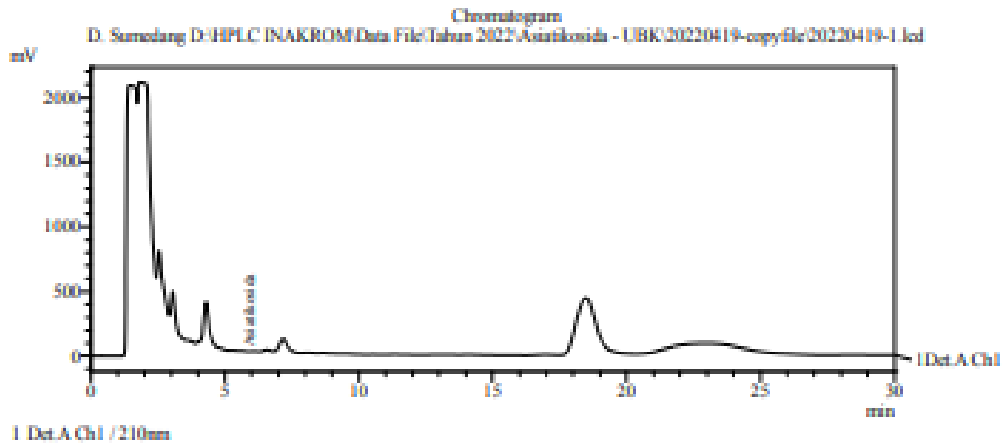
Hp. 0896 7768 8680, E-mail : pt.inakrom@gmail.com

ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : D. Sumedang
Sample ID : 0.513 gr
Vial# : 1
Injection Volume : 20 uL
Data Filename : 20220419-1 Jed
Method Filename : Kondisi 1 As Ortosipat 0_1 ACN 50_50.lcm
Batch Filename : 20220419-Desti Zahra.lcm
Report Filename : Default.lcr
Date Acquired : 19/04/2022 14:14:54
Data Processed : 14/06/2022 20:38:01

<Chromatogram>



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Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	Scaling Factor	k'
1	Asiatikosida	5.483	770125	0.481	0.000	0.00	0.000	2.004

Lampiran 18 Hasil Kromatogram Pegagan Bandung

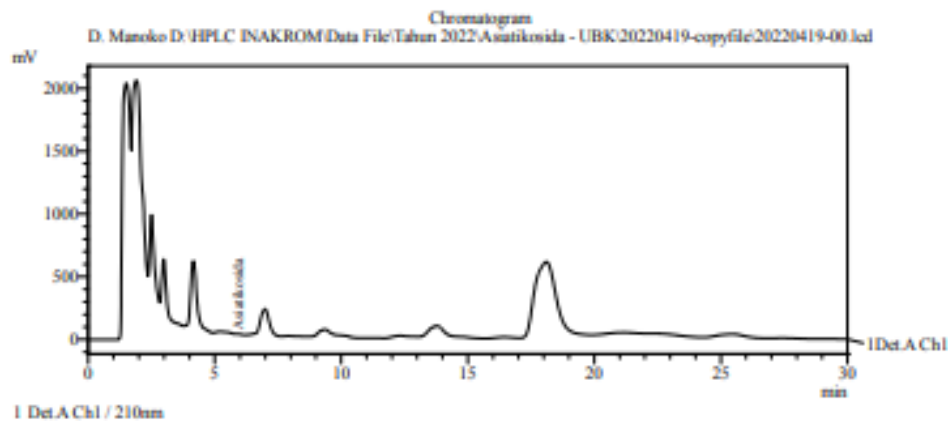


ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : D. Manoko
Sample ID : 0.504 gr
Vial# : 0
Injection Volume : 20 µL
Data Filename : 20220419-00.lcd
Method Filename : Kondisi 1 As. Otofospat 0_1 ACN 50_50.lcm
Batch Filename :
Report Filename : Default.lcr
Date Acquired : 19/04/2022 18:59:06
Data Processed : 16/05/2022 10:16:19

<Chromatogram>



D:\HPLC INAKROM\Data File\Tahun 2022\Asiatikosida - UBK\20220419-copyfile\20220419-00.lcd

Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	Scaling Factor	K'
1	Asiatikosida	5.500	719606	0.448	799.522	4.09	0.000	1.901

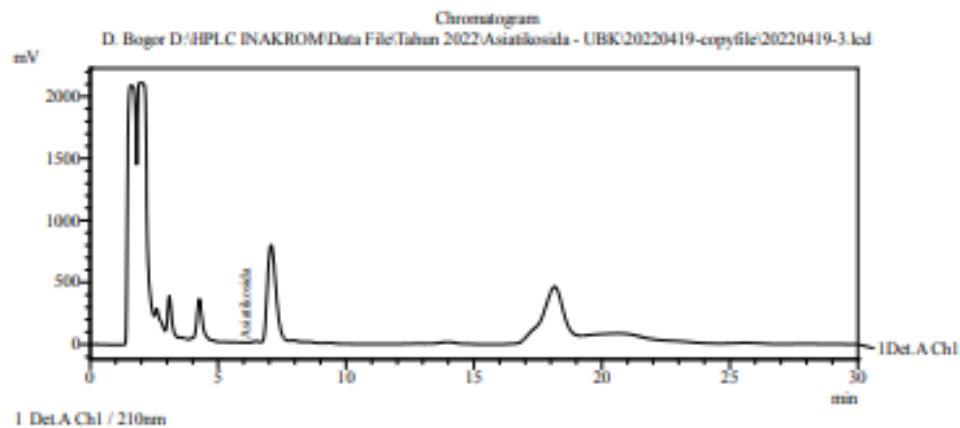
Lampiran 19 Hasil Kromatogram Pegagan Bogor

**ANALYSIS REPORT**

Sample Information

Acquired by : Yusuf Eka Maulana
 Sample Name : D. Bogor
 Sample ID : 0.530 gr
 Vial# : 3
 Injection Volume : 20 µL
 Data Filename : 20220419-3.lcd
 Method Filename : Kondisi 1 As Ortofosfat 0_1 ACN 50_50.lcm
 Batch Filename : 20220419-Desti Zahra.lch
 Report Filename : Default.lcr
 Date Acquired : 19/04/2022 15:17:57
 Data Processed : 14/05/2022 20:43:06

<Chromatogram>



D:\HPLC INAKROM\Data File\Tahun 2022\Asiatikosida - UBK\20220419-copyfile\20220419-3.lcd

Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	ailing Factor	k'
1	Asiatikosida	5.616	383740	0.271	115.981	2.48	0.000	1.896

Lampiran 20 Surat Pernyataan Bebas Plagiasi**SURAT PERNYATAAN**

Yang bertanda tangan di bawah ini,

Nama : Desti Astriyani

N P M : 11181198

adalah mahasiswa Fakultas Farmasi, Universitas Bhakti Kencana, menyatakan dengan sesungguhnya bahwa Naskah Tugas Akhir/Skripsi yang saya tulis dengan judul:

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Bandung , 07 September 2022

Yang membuat pernyataan,



(Desti Astriyani)

11181198

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Nama : Desti Astriyani

N P M : 11181198

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DAERAH YANG BERBEDA**

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Bandung , 07 September 2022

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