

LAMPIRAN

Lampiran 1 Surat Determinasi Tanaman Pegagan


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 Karakterisasi Simplisia

Tabel 5.2. Perhitungan Karakterisasi Simplisia

Pengujian	Asal Daerah Tanaman	Hasil
Penetapan Kadar Air	Pangandaran	$\text{Kadar Air} = \frac{\text{Volume akhir} - \text{Volume awal}}{\text{bobot simplisia}} \times 100\%$ $\text{Kadar Air} = \frac{2,1-2}{2} \times 100\%$ $\text{Kadar Air} = 5 \% \text{ (v/b)}$
	Bandung	$\text{Kadar Air} = \frac{2,05-2}{2} \times 100\%$ $\text{Kadar Air} = 2,5 \% \text{ (v/b)}$
	Sumendang	$\text{Kadar Air} = \frac{2,1-2}{2} \times 100\%$ $\text{Kadar Air} = 5 \% \text{ (v/b)}$
	Sukabumi	$\text{Kadar Air} = \frac{2,15-2}{2} \times 100\%$ $\text{Kadar Air} = 7,5\% \text{ (v/b)}$
	Bogor	$\text{Kadar Air} = \frac{2,05-2}{2} \times 100\%$ $\text{Kadar Air} = 2,5 \% \text{ (v/b)}$
Penetapan Kadar Sari Larut Air	Pangandaran	$\text{Kadar Sari Larut Air} = \frac{\text{bobot ekstrak} \times 5}{\text{bobot simplisia}} \times 100\%$ $\text{Kadar Sari Larut Air} = \frac{(40,63-40,51) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Air} = 30\% \text{ (b/b)}$
	Bandung	$\text{Kadar Sari Larut Air} = \frac{(45,99-45,84) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Air} = 37,5\% \text{ (b/b)}$
	Sumendang	$\text{Kadar Sari Larut Air} = \frac{(98,59-98,42) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Air} = 42,5\% \text{ (b/b)}$
	Sukabumi	$\text{Kadar Sari Larut Air} = \frac{(115,31-115,20) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Air} = 27,5\% \text{ (b/b)}$
	Bogor	$\text{Kadar Sari Larut Air} = \frac{(45,89-45,78) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Air} = 27,5\% \text{ (b/b)}$

Lampiran 2 (Lanjutan)

Penetapan Kadar Sari Larut Etanol	Pangandaran	$\text{Kadar Sari Larut Etanol} = \frac{\text{bobot ekstrak} \times 5}{\text{bobot simplisia}} \times 100\%$ $\text{Kadar Sari Larut Etanol} = \frac{(66,65-66,50) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Etanol} = 37,5\% \text{ (b/b)}$
	Bandung	$\text{Kadar Sari Larut Etanol} = \frac{(65,42-65,28) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Etanol} = 35\% \text{ (b/b)}$
	Sumendang	$\text{Kadar Sari Larut Etanol} = \frac{(40,69-40,51) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Etanol} = 45\% \text{ (b/b)}$
	Sukabumi	$\text{Kadar Sari Larut Etanol} = \frac{(48,99-48,81) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Etanol} = 45\% \text{ (b/b)}$
	Bogor	$\text{Kadar Sari Larut Etanol} = \frac{(40,75-40,59) \times 5}{2} \times 100\%$ $\text{Kadar Sari Larut Etanol} = 42,5\% \text{ (b/b)}$
Penetapan Kadar Abu Total	Pangandaran	$\text{Kadar Abu Total} = \frac{\text{Bobot abu}}{\text{Bobot Simplisia}} \times 100\%$ $\text{Kadar Abu Total} = \frac{32,78-32,54}{5} \times 100\%$ $\text{Kadar Abu Total} = 8\% \text{ (b/b)}$
	Bandung	$\text{Kadar Abu Total} = \frac{40,80-40,38}{5} \times 100\%$ $\text{Kadar Abu Total} = 14\% \text{ (b/b)}$
	Sumendang	$\text{Kadar Abu Total} = \frac{39,78-39,34}{5} \times 100\%$ $\text{Kadar Abu Total} = 14,5\% \text{ (b/b)}$
	Sukabumi	$\text{Kadar Abu Total} = \frac{42,03-41,68}{5} \times 100\%$ $\text{Kadar Abu Total} = 14,5\% \text{ (b/b)}$
	Bogor	$\text{Kadar Abu Total} = \frac{32,72-32,55}{5} \times 100\%$ $\text{Kadar Abu Total} = 11\% \text{ (b/b)}$

Lampiran 2 (Lanjutan)

Penetapan Kadar Abu Tidak Larut Asam	Pangandaran	Kadar Abu Tidak Larut Asam $= \frac{\text{bobot abu sisa pemijaran}}{\text{bobot simplisia}} \times 100\%$ $= \frac{32,58-32,54}{5} \times 100\%$ $= 0,8\% \text{ (b/b)}$
	Bandung	Kadar Abu Tidak Larut Asam $= \frac{40,42-40,39}{5} \times 100\%$ Kadar Abu Tidak Larut Asam = 0,6% (b/b)
	Sumendang	Kadar Abu Tidak Larut Asam $= \frac{39,39-39,37}{5} \times 100\%$ Kadar Abu Tidak Larut Asam = 0,4% (b/b)
	Sukabumi	Kadar Abu Tidak Larut Asam $= \frac{41,69-41,68}{5} \times 100\%$ Kadar Abu Tidak Larut Asam = 0,2% (b/b)
	Bogor	Kadar Abu Tidak Larut Asam $= \frac{32,58-32,53}{5} \times 100\%$ Kadar Abu Tidak Larut Asam = 1% (b/b)
Penetapan Kadar Abu Larut Air	Pangandaran	Kadar Abu Larut Air $= \frac{\text{bobot abu total} - \text{bobot abu tidak larut air}}{\text{bobot simplisia}} \times 100\%$ $= \frac{33,32-33,21}{5} \times 100\%$ $= 2,2\% \text{ (b/b)}$
	Bandung	Kadar Abu Larut Air $= \frac{47,13-46,92}{5} \times 100\%$ Kadar Abu Larut Air = 4,2% (b/b)
	Sumendang	Kadar Abu Larut Air $= \frac{40,63-40,48}{5} \times 100\%$ Kadar Abu Larut Air = 3% (b/b)
	Sukabumi	Kadar Abu Larut Air $= \frac{39,59-39,45}{5} \times 100\%$ Kadar Abu Larut Air = 2,8% (b/b)
	Bogor	Kadar Abu Larut Air $= \frac{48,97-48,80}{5} \times 100\%$ Kadar Abu Larut Air = 2,4% (b/b)

Lampiran 3 Penapisan Fitokimia

Tabel 5.5. Penapisan Fitokimia Ekstrak dan Simplisia

Pengujian	Pereaksi	Hasil Penapisan Fitokimia										Keterangan
		Ekstrak					Simplisia					
		PGR	BDG	SMD	SMI	BGR	PGR	BDG	SMD	SMI	BGR	
Alkaloid	Dragendroff	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	Tidak ada endapan merah bata
	Mayer	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	Tidak ada endapan putih
Flavonoid	Mg	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	Berwarna kuning
Saponin	HCl 2N	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	Terdapat busa stabil
Kuinon	NaOH 1N	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	Bewarna Merah
Steroid/ Triterpenoid	Lieberman- bouchard	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+) Triterpenoid Berwarna keunguan
Tanin	FeCl ₃ 1%	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	Bewarna hijau kehitaman
	Gelatin 1%	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	Tidak ada endapan putih

Keterangan : Dilakukan pengkodean nama daerah PGR untuk daerah Pangandaran; BDG untuk Bandung; SMD untuk Sumedang; SMI untuk Sukabumi; dan BGR untuk Bogor

Lampiran 4 Rendemen Ekstrak**Tabel 5.4.** Perhitungan Rendemen Ekstrak

Asal Daerah Tanaman	Hasil
Pangandaran	$\text{Rendemen Ekstrak} = \frac{\text{Bobot Ekstrak}}{\text{Bobot Simplisia}} \times 100\%$ $\text{Rendemen Ekstrak} = \frac{120,88 - 108,40}{100} \times 100\%$ $\text{Rendemen Ekstrak} = 12,48\% \text{ (b/b)}$
Bandung	$\text{Rendemen Ekstrak} = \frac{123,43 - 109,50}{100} \times 100\%$ $\text{Rendemen Ekstrak} = 13,93\% \text{ (b/b)}$
Sumedang	$\text{Rendemen Ekstrak} = \frac{121,83 - 108,46}{100} \times 100\%$ $\text{Rendemen Ekstrak} = 13,38\% \text{ (b/b)}$
Sukabumi	$\text{Rendemen Ekstrak} = \frac{128,72 - 108,44}{100} \times 100\%$ $\text{Rendemen Ekstrak} = 20,28\% \text{ (b/b)}$
Bogor	$\text{Rendemen Ekstrak} = \frac{120,40 - 108,21}{100} \times 100\%$ $\text{Rendemen Ekstrak} = 12,18\% \text{ (b/b)}$

Lampiran 5 Penetapan Kadar Fenolat Total**Tabel 5.7.** Absorbansi Kurva Baku Asam Galat

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	0,91470
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

Lampiran 5 (Lanjutan)

Tabel 5.8. Perhitungan Kadar Fenolat Total

Nama	Bobot sampel (gram)	Volume labu (L)	Faktor pengenceran	ABS 1	ABS 2	ABS 3	Rata-rata ABS	Konsentrasi Fenolat (mg/L)	Konsentrasi Fenolat (mg/g)	SD	mg GAE/g ekstrak
Pangandaran	0,025	0,01	4	0,305	0,301	0,300	0,302	65,695	105,112	0,190	10,51
Bandung	0,025	0,01	4	0,398	0,397	0,400	0,398	77,729	124,366	0,157	12,44
Sumedang	0,025	0,01	4	0,359	0,358	0,359	0,359	74,000	118,400	0,174	11,84
Sukabumi	0,025	0,01	4	0,345	0,350	0,342	0,346	69,085	110,536	0,165	11,05
Bogor	0,025	0,01	4	0,311	0,313	0,316	0,313	66,712	106,739	0,313	10,67

Lampiran 6 Penetapan Kadar Flavonoid Total**Tabel 5.10.** Absorbansi Kurva Baku Kuersetin

Konsentrasi	ABS 1	ABS 2	ABS 3	Rata Rata ABS
50	0,25130	0,25151	0,25124	0,25135
60	0,33662	0,33749	0,33818	0,33743
70	0,40868	0,40643	0,40620	0,40710
80	0,49536	0,49588	0,49559	0,49561
90	0,57825	0,57990	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	0,80380	0,81462	0,80745

Lampiran 6 (Lanjutan)

Tabel 5.11. Perhitungan Kadar Flavonoid Total

Nama	Bobot sampel (gram)	Volume labu (L)	Faktor pengenceran	ABS 1	ABS 2	ABS 3	Rata-rata ABS	Konsentrasi Flavonoid (mg/L)	Konsentrasi Flavonoid (mg/g)	SD	mg QE/g ekstrak
Pangandaran	0,025	0,01	4	0,305	0,301	0,300	0,302	55,775	89,24	0,533	8,92
Bandung	0,025	0,01	4	0,398	0,397	0,400	0,398	62,9	100,64	0,139	10,84
Sumedang	0,025	0,01	4	0,359	0,358	0,359	0,359	67,775	108,44	0,117	10,06
Sukabumi	0,025	0,01	4	0,345	0,350	0,342	0,346	61,275	98,04	0,809	9,80
Bogor	0,025	0,01	4	0,311	0,313	0,316	0,313	57,15	91,44	0,510	9,14

Lampiran 7 Hasil Kromatogram Baku Asiatikosida 1000 PPM

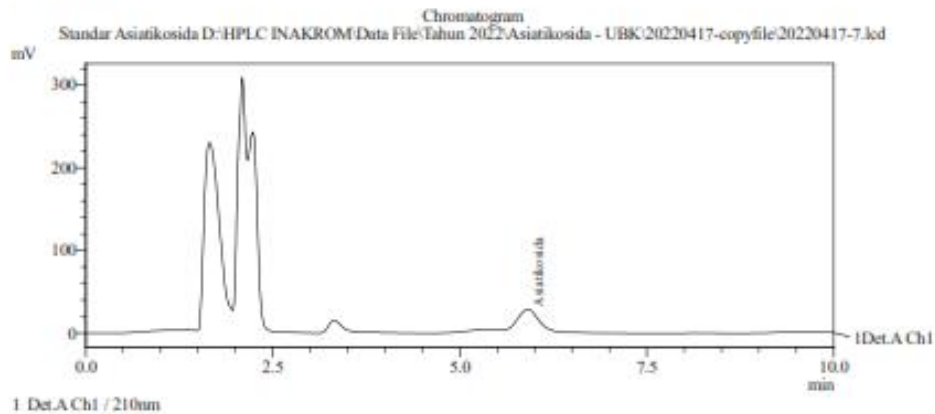


ANALYSIS REPORT

Sample Information

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

<Chromatogram>



D:\HPLC INAKROM\Data File\Tahun 2022\Asiatikosida - UBK\20220417-copyfile\20220417-7.lcd

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

Lampiran 8 Hasil Kromatogram Baku Asiatikosida 500 PPM

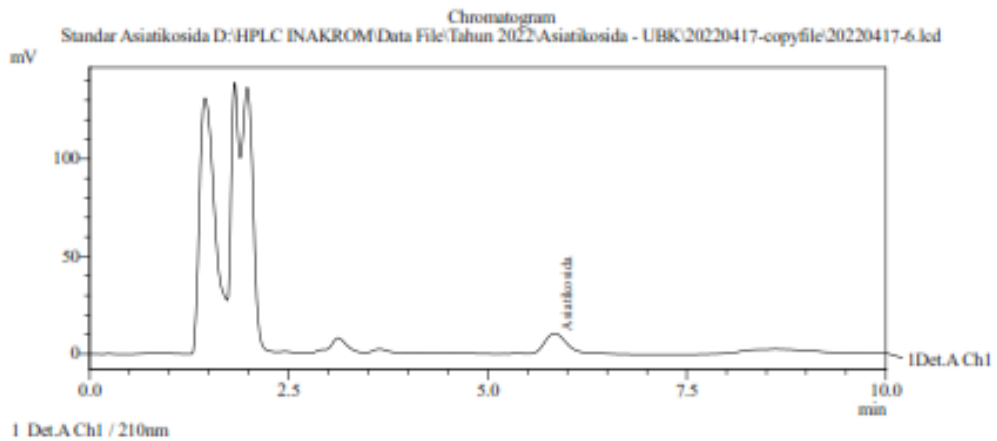


ANALYSIS REPORT

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 Ortofospat 0_1 ACN 50_50.lcm
Batch Filename : 20220417-B.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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Detector A

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

Lampiran 9 Hasil Kromatogram Baku Asiatikosida 250 PPM

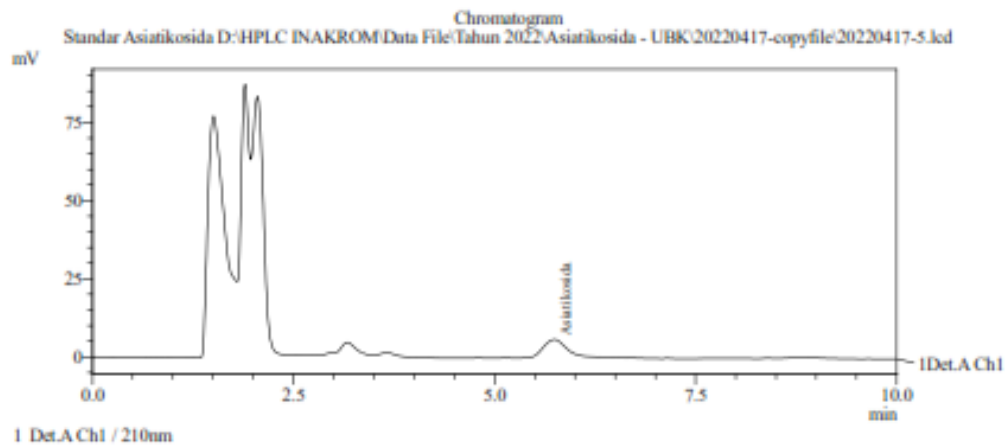


ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : Standar Asiatikosida
Sample ID : 250 mg/l
Vial# : 5
Injection Volume : 20 uL
Data Filename : 20220417-5.lcd
Method Filename : Kondisi 1 As Ortospat 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

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Detector A

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

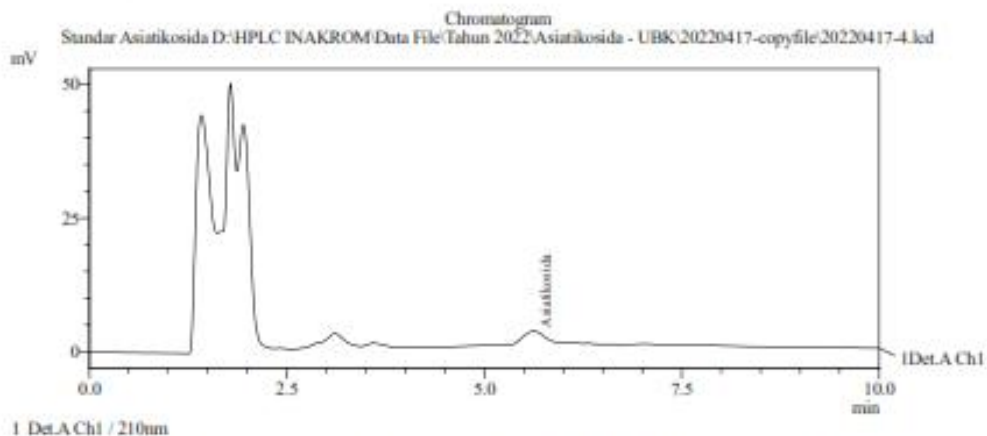
Lampiran 10 Hasil Kromatogram Baku Asiatikosida 125 PPM



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 Ortofosfat 0_1 ACN 50_50.lcm
Batch Filename : 20220417-8.lcb
Report Filename : Default.lcr
Date Acquired : 17/04/2022 14:31:28
Data Processed : 16/05/2022 11:21:03

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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 11 Hasil Kromatogram Baku Asiatikosida 62,5 PPM

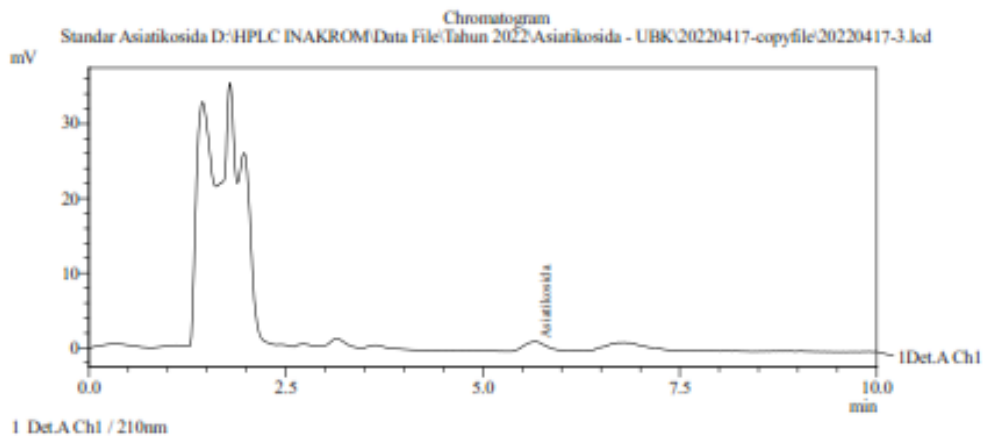


ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
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 Ortospat 0_1 ACN 50_50.lcm
Batch Filename : 20220417-B.lcb
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

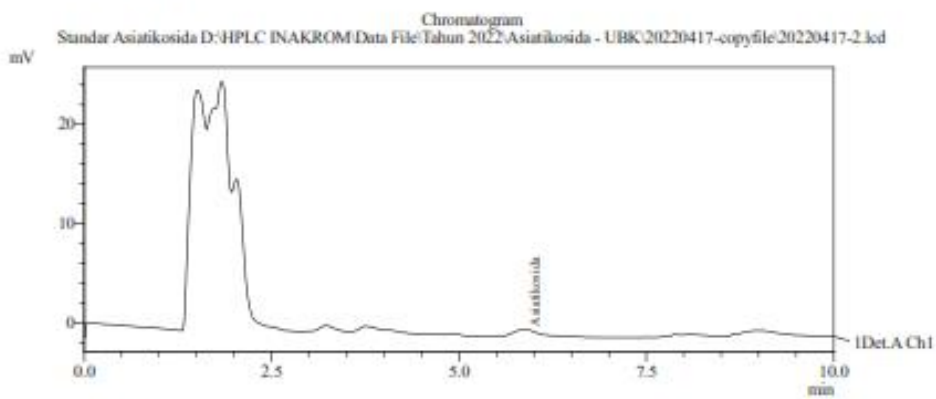
Lampiran 12 Hasil Kromatogram Baku Asiatikosida 31,25 PPM



ANALYSIS REPORT

Sample Information
Acquired by : Yusuf Eka Maulana
Sample Name : Standar Asiatikosida
Sample ID : 31,25 mg/l
Vial# : 2
Injection Volume : 20 uL
Data Filename : 20220417-2.lcd
Method Filename : Kondisi 1 As Ortofospat 0_1 ACN 50_50.lcm
Batch Filename : 20220417-8.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 %	heoretical Plate	Resolution	ailing Factor	k'
1	Asiatikosida	5.862	11832	44.542	2183.113	6.06	1.190	0.817

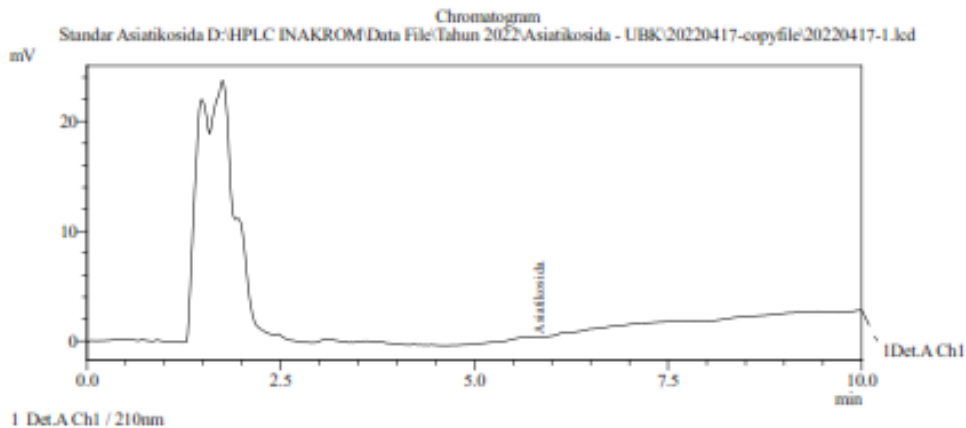
Lampiran 13 Hasil Kromatogram Baku Asiatikosida 15,62 PPM



ANALYSIS REPORT

Sample Information
Acquired by : Yusuf Eka Maulana
Sample Name : Standar Asiatikosida
Sample ID : 15,62 mg/l
Vial# : 1
Injection Volume : 20 uL
Data Filename : 20220417-1.lcd
Method Filename : Kondisi 1 As Ortospat 0_1 ACN 50_50.lcm
Batch Filename : 20220417-B.lcb
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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Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	Tailing Factor	k'
1	Asiatikosida	5.687	2902	35.351	2787.850	6.62	0.757	0.839

Lampiran 14 Hasil Kromatogram Asiatikosida Pada Ekstrak Pegagan Sukabumi



PT INAKROM TEKNO LAB ANALITIKA

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

Jl. Nanjung KM. 2, Sayuran Lagadar, Kec. Margaasih, Kab. Bandung

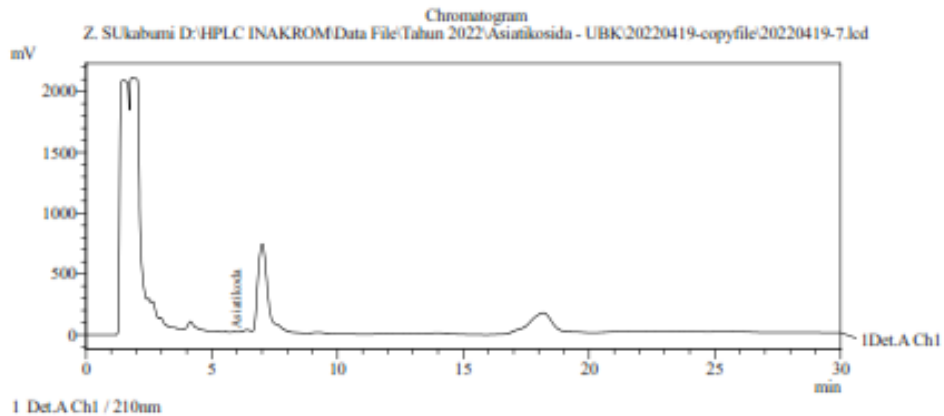
Hp. 0896 7768 8680, E-mail : pt.inakrom@gmail.com

ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : Z. SUkabumi
Sample ID : 0.524 gr
Vial#: 7
Injection Volume : 20 uL
Data Filename : 20220419-7.lcd
Method Filename : Kondisi 1 As Ortofospat 0_1 ACN 50_50.lcm
Batch Filename : 20220419-Desti Zahra.lcb
Report Filename : Default.lcr
Date Acquired : 19/04/2022 17:24:08
Data Processed : 16/05/2022 10:22:53

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Detector A

ID#	Name	Ret. Time	Area	Area %	heoretical Plate	Resolution	ailing Factor	k'
1	Asiatikosida	5.530	415264	0.283	49.074	1.83	0.000	2.036

Lampiran 15 Hasil Kromatogram Asiatikosida Pada Ekstrak Pegagan Sumedang

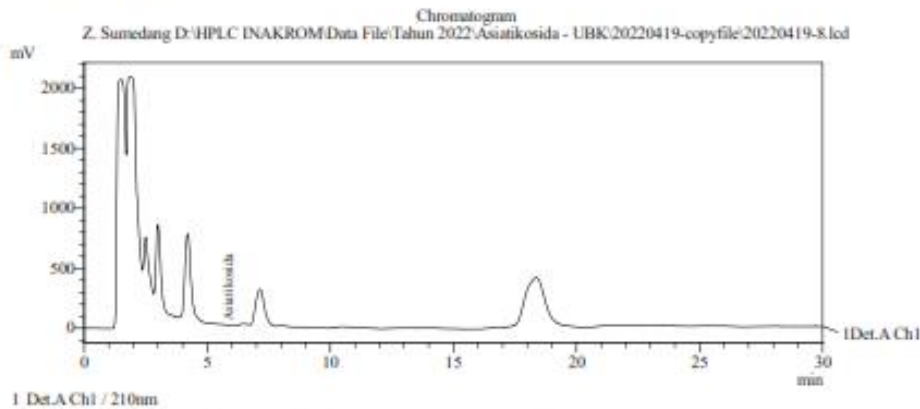


ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : Z. Sumedang
Sample ID : 0.537 gr
Vial# : 8
Injection Volume : 20 uL
Data Filename : 20220419-8.lcd
Method Filename : Kondisi 1 As Ortofosfat 0_1 ACN 50_50.lcm
Batch Filename : 20220419-Desti Zahra.lcb
Report Filename : Default.lcr
Date Acquired : 19/04/2022 17:55:42
Data Processed : 16/05/2022 9:31:07

<Chromatogram>



D:\HPLC INAKROM\Data File\Tahun 2022\Asiatikosida - UBK\20220419-copyfile\20220419-8.lcd

Detector A

ID#	Name	Ret. Time	Area	Area %	heoretical Plate	Resolution	Tailing Factor	k'
1	Asiatikosida	5.408	759573	0.456	0.000	0.00	0.000	1.869

Lampiran 16 Hasil Kromatogram Asiatikosida Pada Ekstrak Pegagan Pangandaran

PT INAKROM TEKNO LAB ANALITIKA

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

Jl. Nanjung KM. 2, Sayuran Lagadar, Kec. Margaasih, Kab. Bandung

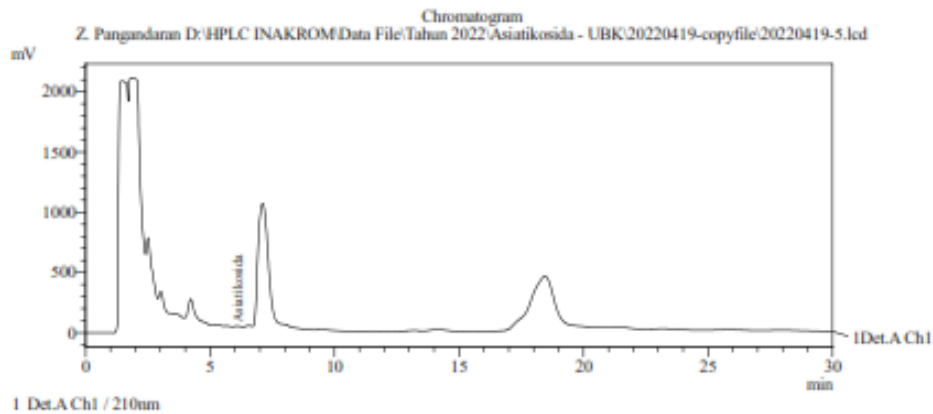
Hp. 0896 7768 8680, E-mail : pt.inakrom@gmail.com

ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
 Sample Name : Z. Pangandaran
 Sample ID : 0.519 gr
 Vial# : 5
 Injection Volume : 20 uL
 Data Filename : 20220419-5.lcd
 Method Filename : Kondisi 1 As Ortofosfat 0_1 ACN 50_50.lcm
 Batch Filename : 20220419-Desti Zahra.lcb
 Report Filename : Default.lcr
 Date Acquired : 19/04/2022 16:21:02
 Data Processed : 16/05/2022 9:25:58

<Chromatogram>



D:\HPLC INAKROM\Data File\Tahun 2022\Asiatikosida - UBK\20220419-copyfile\20220419-5.lcd

Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	ailing Factor	k'
1	Asiatikosida	5.657	1048408	0.538	17.575	1.19	0.000	2.107

Lampiran 17 Hasil Kromatogram Asiatikosida Pada Ekstrak Pegagan Bogor

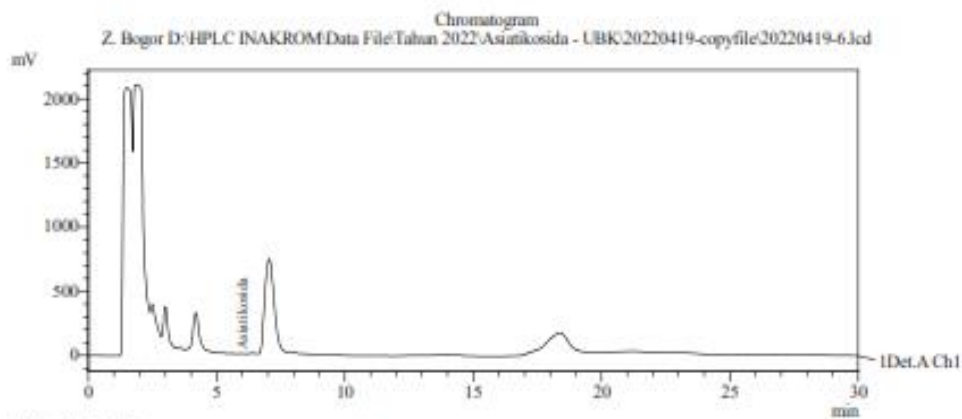


ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : Z. Bogor
Sample ID : 0.514 gr
Vial# : 6
Injection Volume : 20 uL
Data Filename : 20220419-6.lcd
Method Filename : Kondisi 1 As Ortospat 0_1 ACN 50_50.lcm
Batch Filename : 20220419-Desti Zahra.lcb
Report Filename : Default.lcr
Date Acquired : 19/04/2022 16:52:35
Data Processed : 16/05/2022 9:28:00

<Chromatogram>



D:\HPLC INAKROM\Data File\Tahun 2022\Asiatikosida - UBK\20220419-copyfile\20220419-6.lcd

Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	ailing Factor	k'
1	Asiatikosida	5.551	381419	0.255	36.981	1.63	0.000	2.018

Lampiran 18 Hasil Kromatogram Asiatikosida Pada Ekstrak Pegagan Bandung



PT INAKROM TEKNO LAB ANALITIKA

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

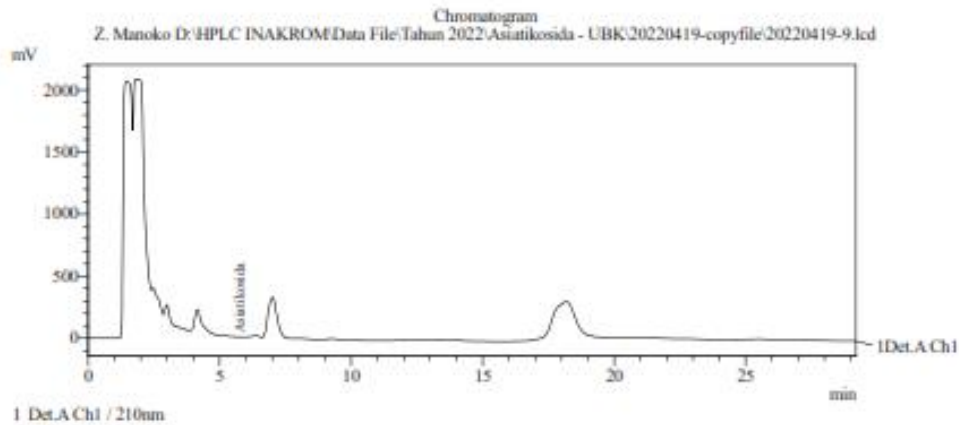
Jl. Nanjung KM. 2, Sayuran Lagadar, Kec. Margaasih, Kab. Bandung
Hp. 0896 7768 8680, E-mail : pt.inakrom@gmail.com

ANALYSIS REPORT

Sample Information

Acquired by : Yusuf Eka Maulana
Sample Name : Z. Manoko
Sample ID : 0.563 gr
Vial# : 9
Injection Volume : 20 uL
Data Filename : 20220419-9.lcd
Method Filename : Kondisi 1 As Ortofosfat 0.1 ACN 50.1cm
Batch Filename : 20220419-Desti Zahra.kcb
Report Filename : Default.lcr
Date Acquired : 19/04/2022 18:27:18
Data Processed : 16/05/2022 9:32:40

<Chromatogram>



D:\HPLC INAKROM\Data File\Tahun 2022\Asiatikosida - UBK\20220419-copyfile\20220419-9.lcd

Detector A

ID#	Name	Ret. Time	Area	Area %	theoretical Plate	Resolution	Tailing Factor	K'
1	Asiatikosida	5.325	569089	0.399	0.000	0.00	0.000	1.961

Lampiran 19 Penetapan Kadar Asiatikosida**Tabel 5.13.** Luas Area Kurva Baku 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 5.15. Perhitungan Kadar Asiatikosida

Nama sampel	Berat sampel (gram)	Volume (L)	Luas area	Konsentrasi Asiatikosida (mg/L)	Kadar Asiatikosida (mg/g)	mg asiatikosida/g Ekstrak (%)
Pangandaran	0,519	0,01	1,048,408	2194,95	42,29	4,23
Bandung	0,563	0,01	569,089	1201,25	21,34	2,13
Sumedang	0,537	0,01	759,573	1596,15	29,72	2,97
Sukabumi	0,542	0,01	415,264	882,35	16,28	1,63
Bogor	0,514	0,01	384,819	819,24	15,94	1,59

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

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Nama : Zahrah Salsabila Firdaus

N P M : 11181190

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Yang membuat pernyataan,



(Zahrah Salsabila Firdaus)

NPM. 11181190

02.66.00/FRM-03/AKD-SPMI

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N P M : 11181190

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Bandung, 05 Agustus 2022

Yang membuat pernyataan,



(Zahrah Salsabila Firdaus)

NPM. 11181190

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