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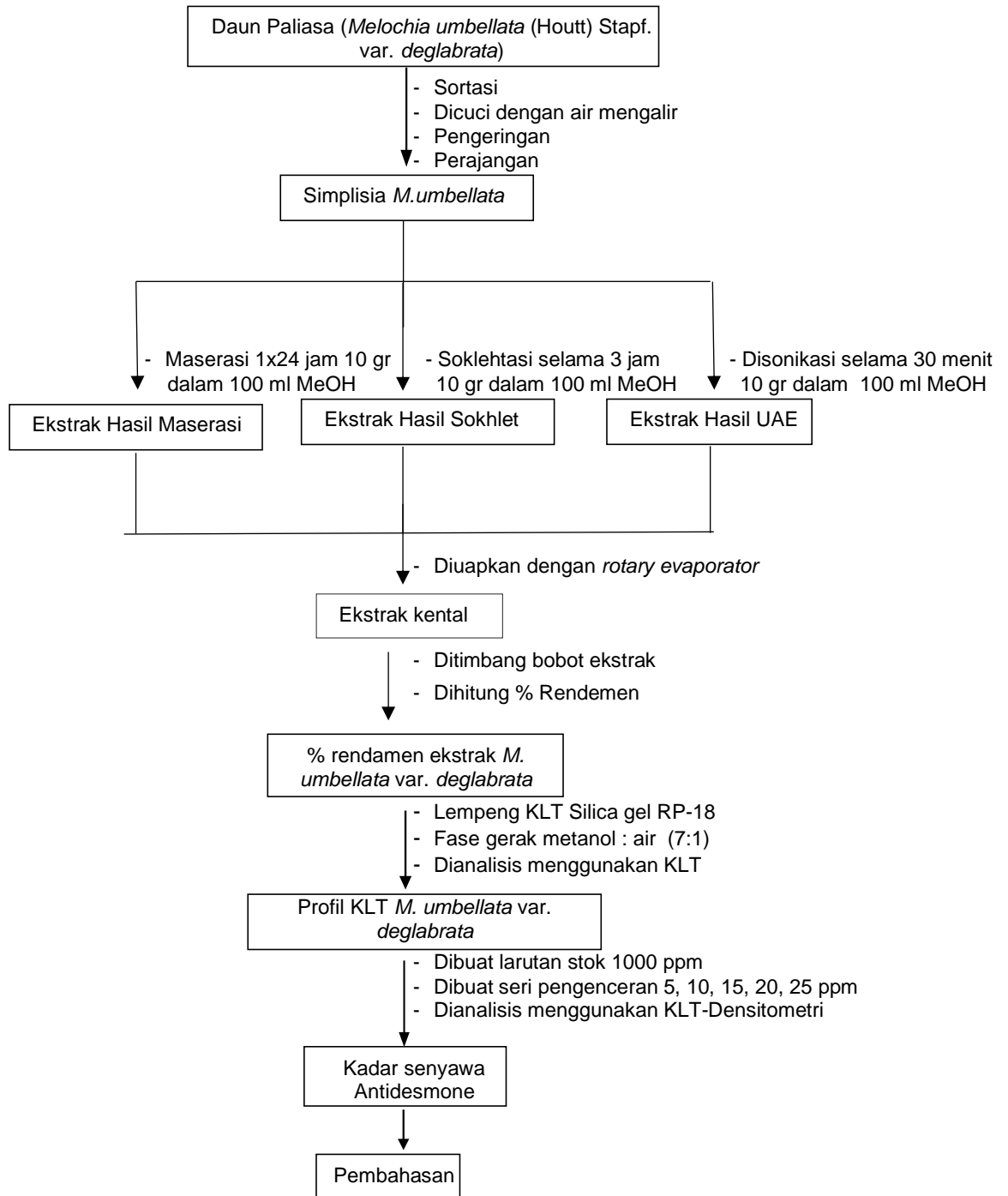
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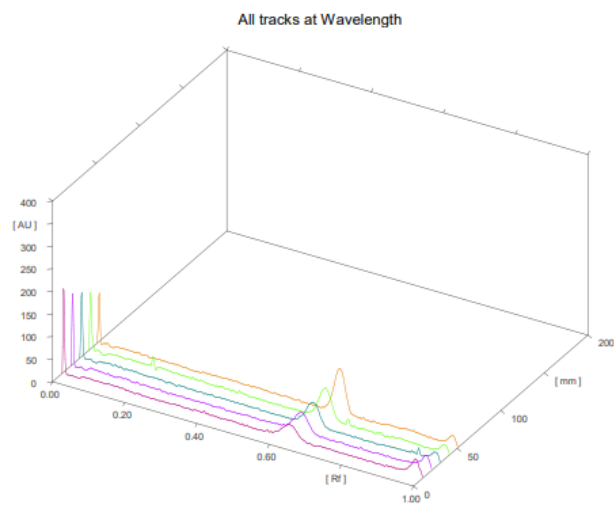
LAMPIRAN

Lampiran 1. Skema Kerja



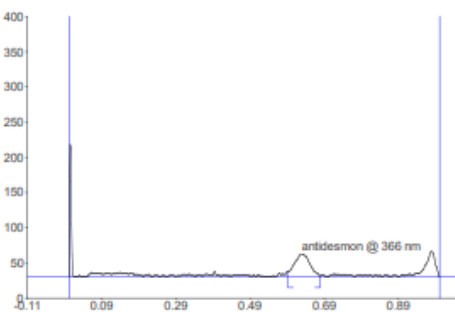
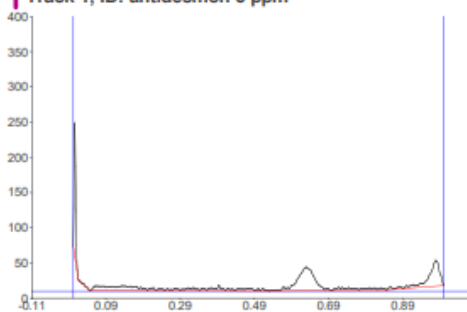
Lampiran 2. Hasil Analisis KLT-Densitometri

A. Baku Antidesmone



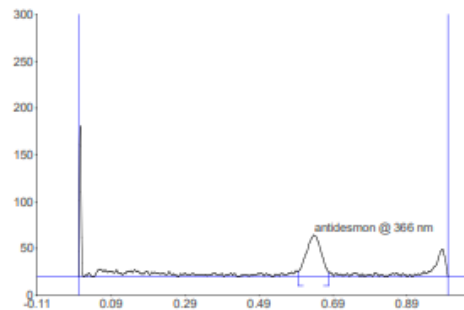
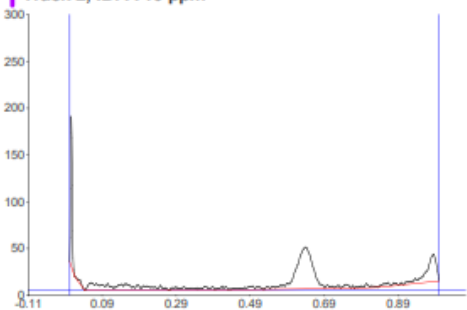
a. Baku 5 ppm

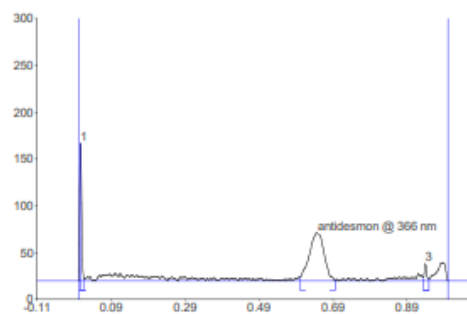
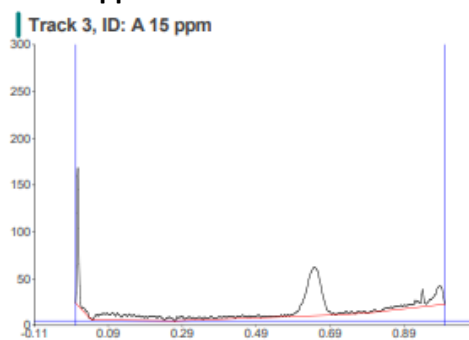
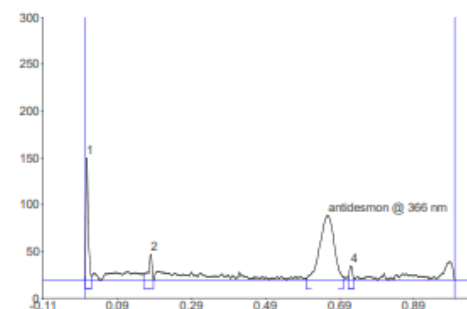
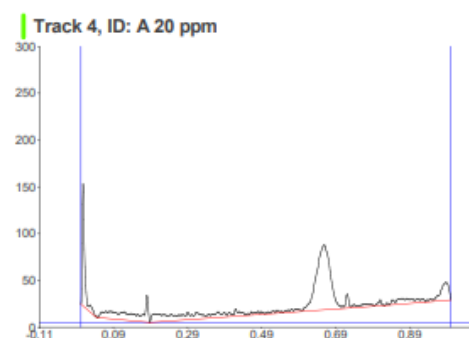
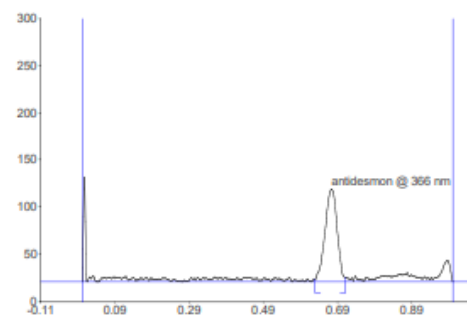
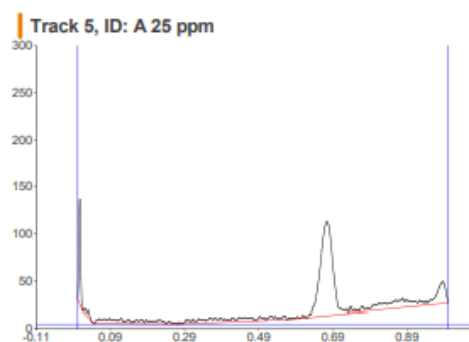
Track 1, ID: antidesmon 5 ppm



b. Baku 10 ppm

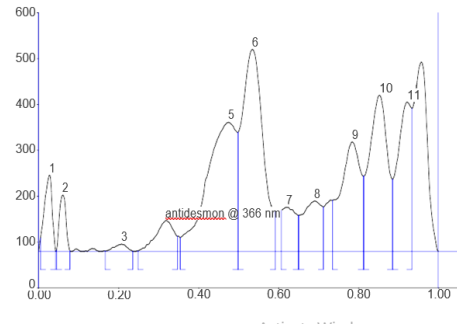
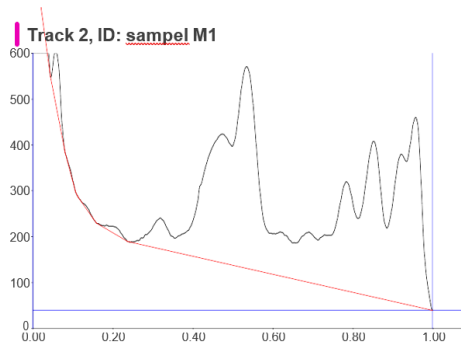
Track 2, ID: A 10 ppm



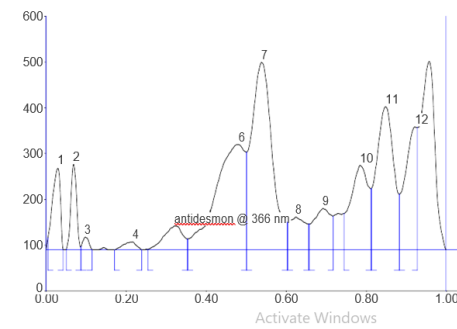
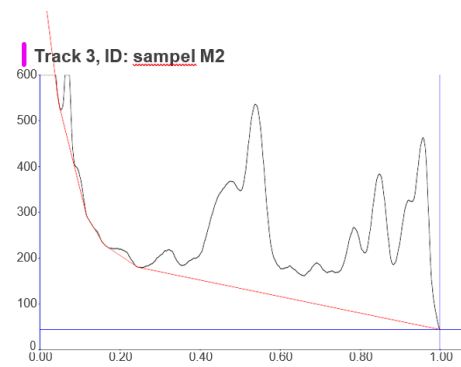
c. Baku 15 ppm**d. Baku 20 ppm****e. Baku 25 ppm**

B. Ekstrak Daun *Melochia Umbellata*

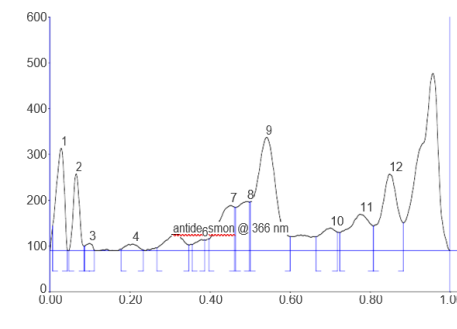
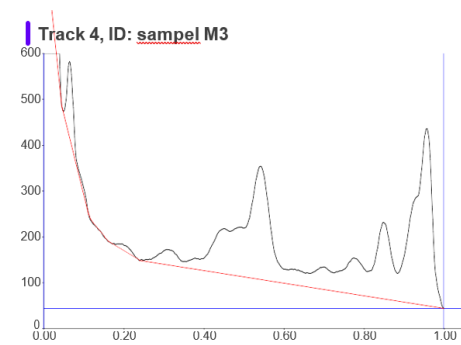
a. Ekstrak Maserasi Replikasi 1



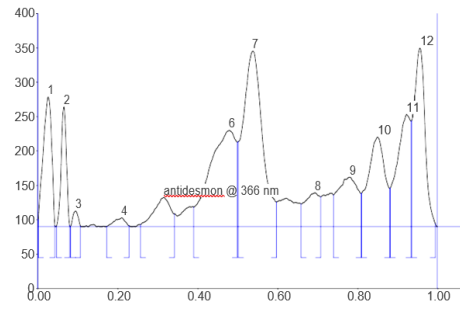
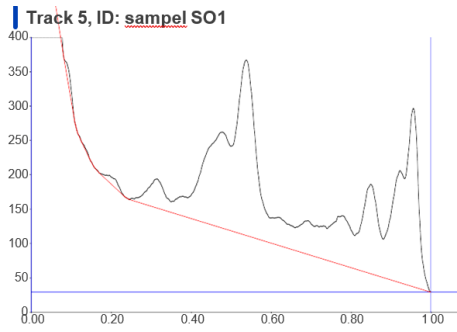
b. Ekstrak Maserasi Replikasi 2



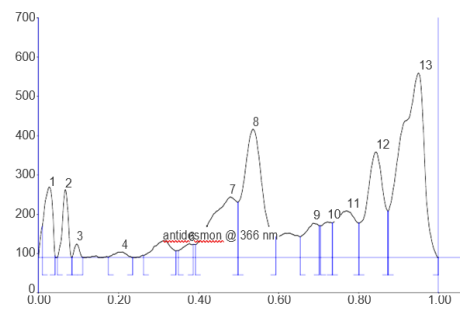
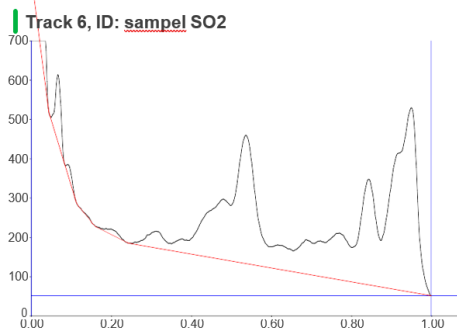
c. Ekstrak Maserasi Replikasi 3



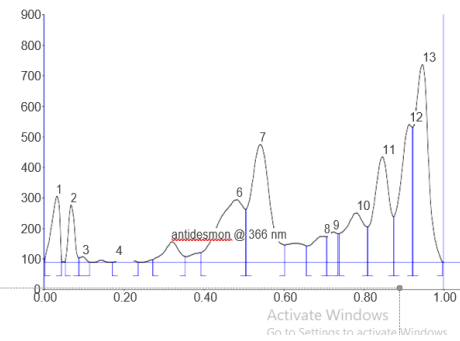
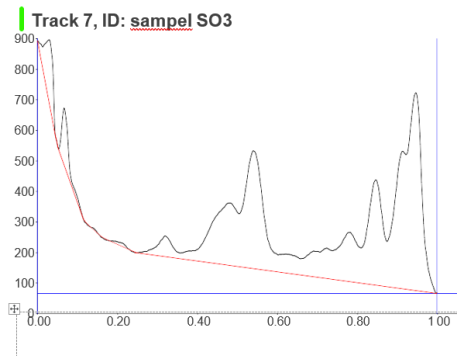
d. Ekstrak Sokletasi Replikasi 1



e. Ekstrak Sokletasi Replikasi 2

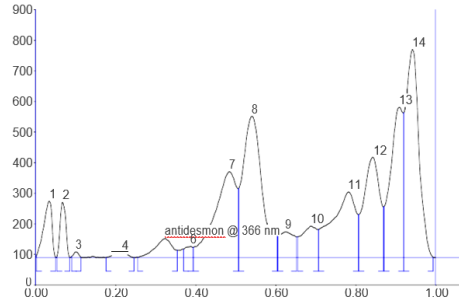
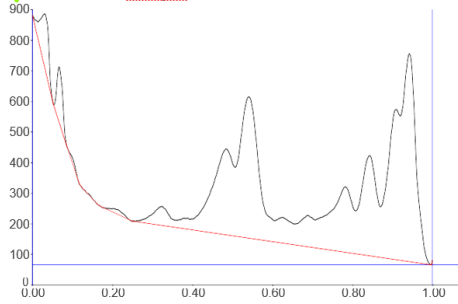


f. Ekstrak Sokletasi Replikasi 3



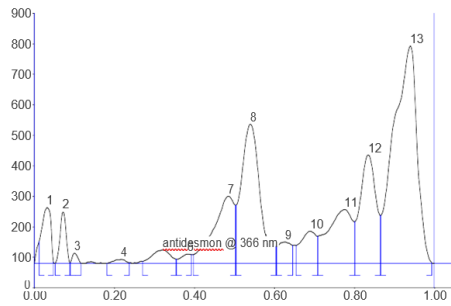
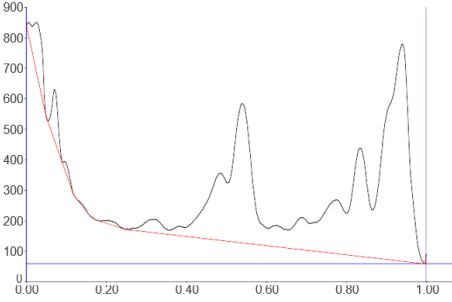
g. Ekstrak Sonikasi Replikasi 1

Track 8, ID: sampel Sn1



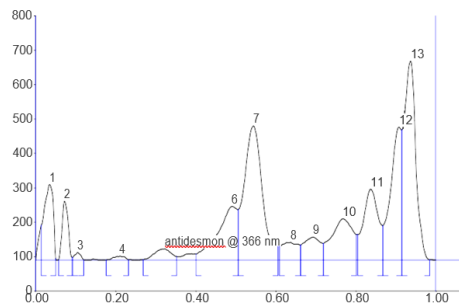
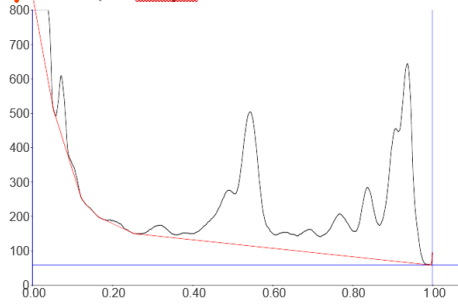
h. Ekstrak Sonikasi Replikasi 2

Track 9, ID: sampel Sn2



i. Ekstrak sonikasi Replikasi 3

Track 10, ID: sampel Sn3



Lampiran 3. Perhitungan

Lampiran 3.1 Perhitungan % Rendemen

A. Maserasi

a. Replikasi 1

$$\% \text{ Rendemen} = \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia (g)}} \times 100\%$$

$$\% \text{ Rendemen} = \frac{1,54 \text{ g}}{10 \text{ g}} \times 100\%$$

$$\% \text{ Rendemen} = 15,4\%$$

b. Replikasi 2

$$\% \text{ Rendemen} = \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia (g)}} \times 100\%$$

$$\% \text{ Rendemen} = \frac{1,71 \text{ g}}{10 \text{ g}} \times 100\%$$

$$\% \text{ Rendemen} = 17,1\%$$

c. Replikasi 3

$$\% \text{ Rendemen} = \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia (g)}} \times 100\%$$

$$\% \text{ Rendemen} = \frac{1,70 \text{ g}}{10 \text{ g}} \times 100\%$$

$$\% \text{ Rendemen} = 17\%$$

B. Sokletasi

a. Replikasi 1

$$\% \text{ Rendemen} = \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia (g)}} \times 100\%$$

$$\% \text{ Rendemen} = \frac{1,74 \text{ g}}{10 \text{ g}} \times 100\%$$

$$\% \text{ Rendemen} = 17,4\%$$

b. Replikasi 2

$$\% \text{ Rendemen} = \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia (g)}} \times 100\%$$

$$\% \text{ Rendemen} = \frac{1,79 \text{ g}}{10 \text{ g}} \times 100\%$$

$$\% \text{ Rendemen} = 17,9\%$$

c. Replikasi 3

$$\% \text{ Rendemen} = \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia (g)}} \times 100\%$$

$$\% \text{ Rendemen} = \frac{1,88 \text{ g}}{10 \text{ g}} \times 100\%$$

$$\% \text{ Rendemen} = 18,8\%$$

C. Sonikasi

a. Replikasi 1

$$\% \text{ Rendemen} = \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia (g)}} \times 100\%$$

$$\% \text{ Rendemen} = \frac{1,08 \text{ g}}{10 \text{ g}} \times 100\%$$

$$\% \text{ Rendemen} = 10,8\%$$

b. Replikasi 2

$$\% \text{ Rendemen} = \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia (g)}} \times 100\%$$

$$\% \text{ Rendemen} = \frac{0,84 \text{ g}}{10 \text{ g}} \times 100\%$$

$$\% \text{ Rendemen} = 8,4\%$$

c. Replikasi 3

$$\% \text{ Rendemen} = \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia (g)}} \times 100\%$$

$$\% \text{ Rendemen} = \frac{1,07 \text{ g}}{10 \text{ g}} \times 100\%$$

$$\% \text{ Rendemen} = 10,7\%$$

Lampiran 3.2 Perhitungan Rf**a. Rf Baku Antidesmone**

$$\begin{aligned} Rf &= \frac{\text{Jarak yang ditempuh senyawa}}{\text{Jarak yang ditempuh eluen}} \\ &= \frac{1,6 \text{ cm}}{4,5 \text{ cm}} \\ &= 0,35 \end{aligned}$$

b. Rf Ekstrak Maserasi

$$\begin{aligned} Rf &= \frac{\text{Jarak yang ditempuh senyawa}}{\text{Jarak yang ditempuh eluen}} \\ &= \frac{1,6 \text{ cm}}{4,5 \text{ cm}} \\ &= 0,35 \end{aligned}$$

c. Rf Ekstrak Sokletasi

$$\begin{aligned} Rf &= \frac{\text{Jarak yang ditempuh senyawa}}{\text{Jarak yang ditempuh eluen}} \\ &= \frac{1,6 \text{ cm}}{4,5 \text{ cm}} \\ &= 0,35 \end{aligned}$$

d. Rf Ekstrak Sonikasi

$$\begin{aligned} Rf &= \frac{\text{Jarak yang ditempuh senyawa}}{\text{Jarak yang ditempuh eluen}} \\ &= \frac{1,6 \text{ cm}}{4,5 \text{ cm}} \\ &= 0,35 \end{aligned}$$

Lampiran 3.3 Perhitungan Kadar Antidesmone

$$\text{Persamaan : } y = 88,548x + 854,9$$

$$y = \text{luas area} / \text{AUC}$$

$$x = \text{konsentrasi}$$

A. Ekstrak Maserasi

a. Replikasi 1

$$\begin{aligned} \text{AUC} &= 2952,3 \\ y &= 88,548x + 854,9 \\ 2952,3 &= 88,548x + 854,9 \\ &= \frac{2952,3 - 854,9}{88,548} \\ &= 23,69 \text{ ppm} \\ \text{Kadar} &= \frac{23,69}{40000} \times 100\% \\ &= 0,059\% \end{aligned}$$

b. Replikasi 2

$$\begin{aligned} \text{AUC} &= 2420 \\ y &= 88,548x + 854,9 \\ 2420 &= 88,548x + 854,9 \\ &= \frac{2420 - 854,9}{88,548} \\ &= 17,68 \text{ ppm} \\ \text{Kadar} &= \frac{17,68}{40000} \times 100\% \\ &= 0,044\% \end{aligned}$$

c. Replikasi 3

$$\begin{aligned} \text{AUC} &= 1539,8 \\ y &= 88,548x + 854,9 \\ 1539,8 &= 88,548x + 854,9 \\ &= \frac{1539,8 - 854,9}{88,548} \\ &= 7,73 \text{ ppm} \\ \text{Kadar} &= \frac{7,73}{40000} \times 100\% \\ &= 0,019\% \end{aligned}$$

B. Ekstrak Sokletasi

a. Replikasi 1

$$\begin{aligned} \text{AUC} &= 1714,6 \\ y &= 88,548x + 854,9 \end{aligned}$$

$$\begin{aligned}
 1714,6 &= 88,548x + 854,9 \\
 &= \frac{1714,6 - 854,9}{88,548} \\
 &= 9,71 \text{ ppm} \\
 \text{Kadar} &= \frac{9,71}{40000} \times 100\% \\
 &= 0,024\%
 \end{aligned}$$

b. Replikasi 2

$$\begin{aligned}
 \text{AUC} &= 1820,3 \\
 y &= 88,548x + 854,9 \\
 1820,3 &= 88,548x + 854,9 \\
 &= \frac{1820,3 - 854,9}{88,548} \\
 &= 10,90 \text{ ppm} \\
 \text{Kadar} &= \frac{10,90}{40000} \times 100\% \\
 &= 0,027\%
 \end{aligned}$$

c. Replikasi 3

$$\begin{aligned}
 \text{AUC} &= 2493,4 \\
 y &= 88,548x + 854,9 \\
 2493,4 &= 88,548x + 854,9 \\
 &= \frac{2493,4 - 854,9}{88,548} \\
 &= 18,50 \text{ ppm} \\
 \text{Kadar} &= \frac{18,50}{40000} \times 100\% \\
 &= 0,046\%
 \end{aligned}$$

C. Ekstrak Sonikasi

a. Replikasi 1

$$\begin{aligned}
 \text{AUC} &= 2613,7 \\
 y &= 88,548x + 854,9 \\
 2613,7 &= 88,548x + 854,9 \\
 &= \frac{2613,7 - 854,9}{88,548} \\
 &= 19,86 \text{ ppm} \\
 \text{Kadar} &= \frac{19,86}{40000} \times 100\% \\
 &= 0,050\%
 \end{aligned}$$

b. Replikasi 2

$$\begin{aligned}
 \text{AUC} &= 1980,2 \\
 y &= 88,548x + 854,9 \\
 1980,2 &= 88,548x + 854,9
 \end{aligned}$$

$$\begin{aligned}
 &= \frac{1980,2 - 854,9}{88,548} \\
 &= 12,71 \text{ ppm} \\
 \text{Kadar} &= \frac{12,71}{40000} \times 100\% \\
 &= 0,032\%
 \end{aligned}$$

c. Replikasi 3

$$\begin{aligned}
 \text{AUC} &= 1349,8 \\
 y &= 88,548x + 854,9 \\
 1349,8 &= 88,548x + 854,9 \\
 &= \frac{1349,8 - 854,9}{88,548} \\
 &= 5,59 \text{ ppm} \\
 \text{Kadar} &= \frac{7,73}{40000} \times 100\% \\
 &= 0,014\%
 \end{aligned}$$

Lampiran 4. Uji Statistik Kadar Antidesmone dari KLT-Densitometri

Tests of Normality

Kadar	Metode	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
	Maserasi	,232	3	.	,980	3	,726
	Sokletasi	,339	3	.	,850	3	,241
	Sonikasi	,175	3	.	1,000	3	1,000

a. Lilliefors Significance Correction

ANOVA

Kadar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.000	2	.000	.248	.788
Within Groups	.002	6	.000		
Total	.002	8			

Multiple Comparisons

Dependent Variable: Kadar

Tukey HSD

(I) Metode ekstraksi	(J) Metode ekstraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Maserasi	Sokletasi	.008333	.013942	.826	-.03444	.05111
	Sonikasi	.008667	.013942	.814	-.03411	.05144
Sokletasi	Maserasi	-.008333	.013942	.826	-.05111	.03444
	Sonikasi	.000333	.013942	1.000	-.04244	.04311
Sonikasi	Maserasi	-.008667	.013942	.814	-.05144	.03411
	Sokletasi	-.000333	.013942	1.000	-.04311	.04244

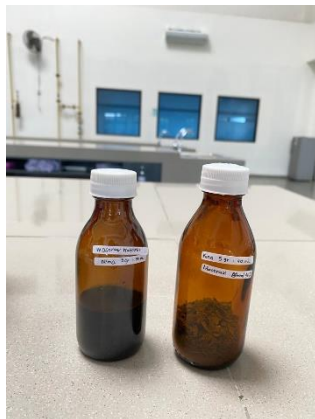
Lampiran 5. Dokumentasi Penelitian**Gambar 15. Pengambilan Sampel****Gambar 16. Penimbangan Sampel****Gambar 17. Pencucian Sampel****Gambar 18. Pengeringan Sampel****Gambar 19. Pengayakan Simplisia****Gambar 20. Penimbangan Simplisia**



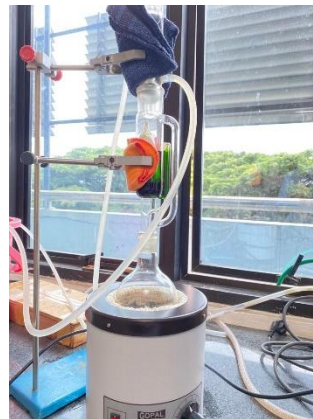
Gambar 21. Penimbangan Sampel



Gambar 22. Preparasi Sampel



Gambar 23. Proses ekstraksi maserasi



Gambar 24. Proses ekstraksi sokletasi



Gambar 25. Proses ekstraksi sonikasi



Gambar 26. Penyaringan hasil ekstraksi



Gambar 27. Penguapan Sampel



Gambar 28. Penimbangan wadah kosong



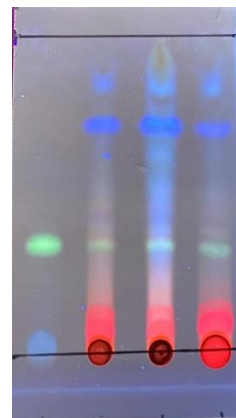
Gambar 29. Penimbangan ekstrak cair



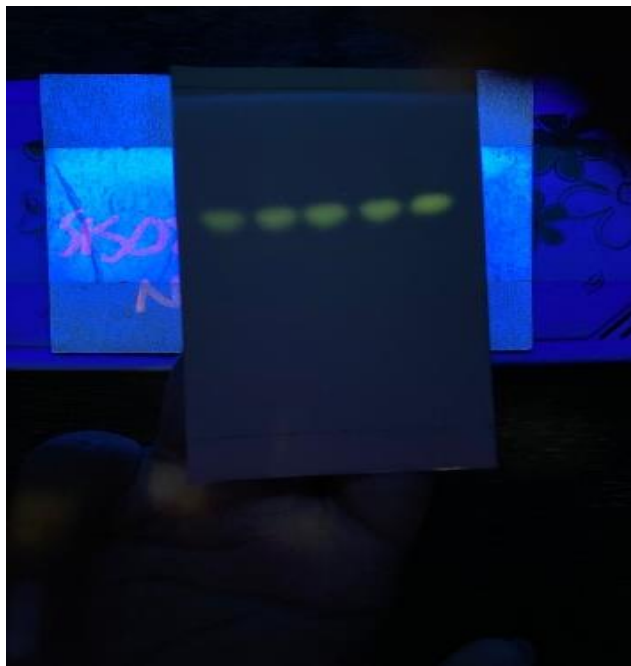
Gambar 30. Penimbangan Ekstrak kental



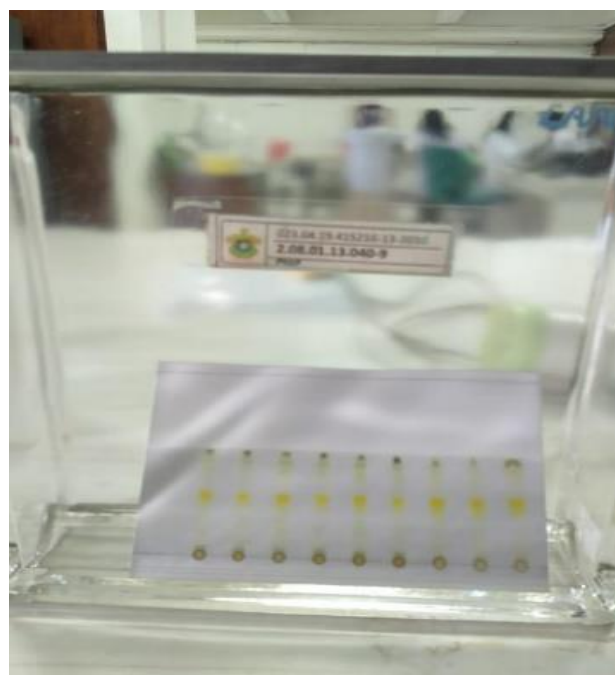
Gambar 31. Elusi lempeng KLT RP-18



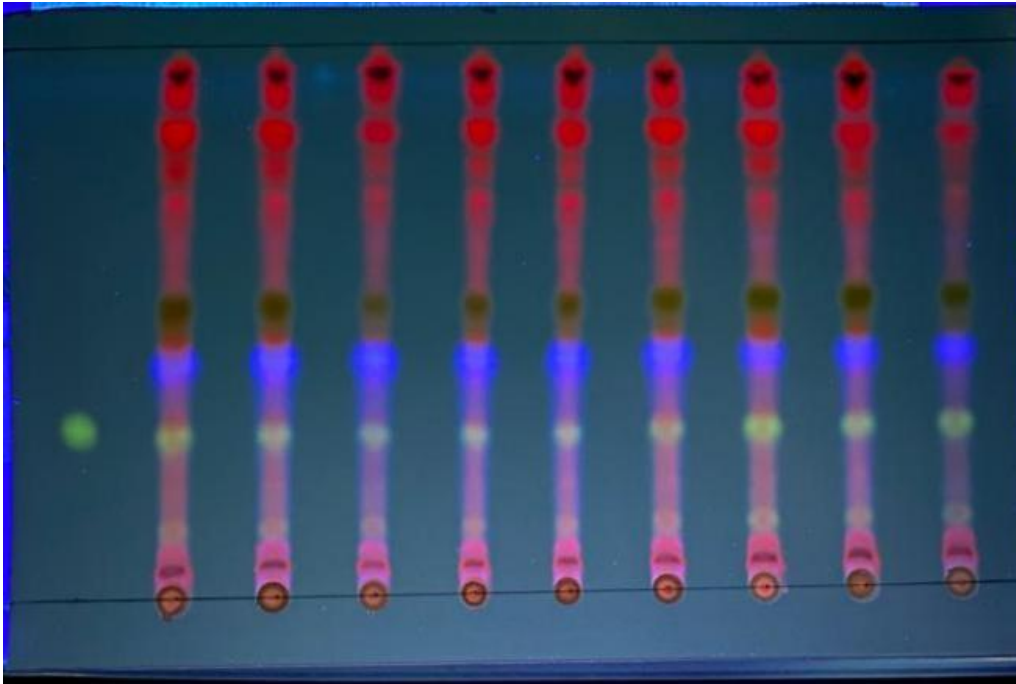
Gambar 32. Profil KLT di bawah sinar UV 366 nm



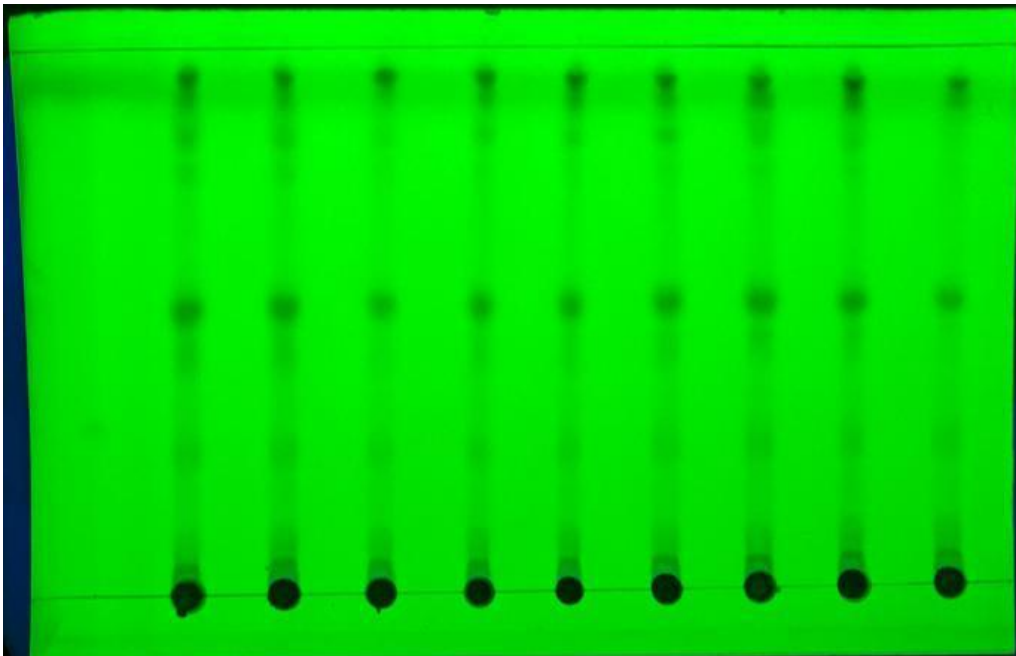
**Gambar 33. Penampakan
noda kurva baku**



**Gambar 34. Proses elusi
Ekstrak lempeng KLT GF₂₅₄
Fase gerak kloroform : etil asetat (7:3)**



Gambar 35. Penampakan noda ekstrak di sinar UV 366 nm



Gambar 36. Penampakan noda ekstrak di sinar UV 254 nm