

**L
A
M
P
I
R
A
N**

Lampiran 1. Perhitungan nilai Rf

$$\text{Rumus Rf} = \frac{\text{Jarak yang ditempuh substansi}}{\text{Jarak yang ditempuh pelarut}}$$

$$\begin{aligned} \text{a. Baku (B)} &= \frac{2,2 \text{ cm}}{15,5 \text{ cm}} \\ &= 0,141 \end{aligned}$$

b. Kontrol positif produk

$$\begin{aligned} I_1 &= \frac{2,2 \text{ cm}}{15,5 \text{ cm}} & I_3 &= \frac{10 \text{ cm}}{15,5 \text{ cm}} \\ &= 0,141 & &= 0,645 \end{aligned}$$

$$\begin{aligned} I_2 &= \frac{4,9 \text{ cm}}{15,5 \text{ cm}} \\ &= 0,316 \end{aligned}$$

c. Sampel

$$\begin{aligned} A &= \frac{5,8 \text{ cm}}{15,5 \text{ cm}} & C_1 &= \frac{1 \text{ cm}}{15,5 \text{ cm}} \\ &= 0,374 & &= 0,064 \end{aligned}$$

$$\begin{aligned} B_1 &= \frac{1 \text{ cm}}{15,5 \text{ cm}} & C_2 &= \frac{2,2 \text{ cm}}{15,5 \text{ cm}} \\ &= 0,064 & &= 0,141 \end{aligned}$$

$$\begin{aligned} B_2 &= \frac{4,9 \text{ cm}}{15,5 \text{ cm}} & C_3 &= \frac{4,9 \text{ cm}}{15,5 \text{ cm}} \\ &= 0,316 & &= 0,316 \end{aligned}$$

$$\begin{aligned} B_3 &= \frac{5,8 \text{ cm}}{15,5 \text{ cm}} & C_4 &= \frac{5,8 \text{ cm}}{15,5 \text{ cm}} \\ &= 0,374 & &= 0,374 \end{aligned}$$

Hasil perhitungan nilai Rf sampel

Kode bercak sampel	Kode bercak kontrol positif produk	Rf baku hidrokuinon
A = 0,374	I₁ = 0,141	0,141
B ₁ = 0,064	I ₂ = 0,316	
B ₂ = 0,316	I ₃ = 0,645	
B ₃ = 0,374		
C ₁ = 0,064		
C₂ = 0,141		
C ₃ = 0,316		
C ₄ = 0,374		

**Lampiran 2. Perhitungan pembuatan larutan baku hidrokuinon
123 ppm**

$$\text{Berat kertas kosong} = 0,2681 \text{ g}$$

$$\text{Berat kertas kosong + sampel} = 0,2802 \text{ g}$$

$$\text{Berat kertas + sisa} = 0,2679 \text{ g}$$

$$\begin{aligned} \text{Berat sampel} &= (\text{berat kertas kosong + sampel}) - (\text{berat kertas kosong} \\ &\quad + \text{sisa}) \end{aligned}$$

$$= 0,2802 \text{ g} - 0,2679 \text{ g}$$

$$= 0,0123 \text{ g}$$

$$= 12,3 \text{ mg}$$

Sebanyak 12,3 mg serbuk baku hidrokuinon dimasukkan ke dalam labu tentukur kemudian ditambahkan etanol p.a sampai 100 mL

$$\text{Konsentrasi} = 12,3 \text{ mg}/100 \text{ mL}$$

$$= 123 \text{ mg} / 1000 \text{ mL}$$

$$= 123 \text{ ppm}$$

Lampiran 3. Perhitungan Larutan Untuk Penentuan Panjang Gelombang Maksimum

$$V1 \times C1 = V2 \times C2$$

$$V1 \text{ mL} \times 123 \text{ ppm} = 10 \text{ mL} \times 12,3 \text{ ppm}$$

$$V1 = \frac{10 \text{ mL} \times 12,3 \text{ ppm}}{123 \text{ mL}}$$

$$V1 = 1 \text{ mL}$$

Keterangan :

V1 = Volume pemipetan larutan (mL)

V2 = Volume larutan dalam labu takar (mL)

C1 = Konsentrasi larutan baku (ppm)

C2 = Konsentrasi larutan yang dibuat (ppm)

Dipipet 1 mL larutan baku hidrokuinon 123 ppm dimasukkan ke dalam labu tentukur 10 mL dilarutkan dengan etanol p.a

Lampiran 4. Perhitungan Larutan Untuk Penentuan *Operating Time*.

$$V1 \times C1 = V2 \times C2$$

$$V1 \times 123 \text{ ppm} = 10 \text{ mL} \times 24,6 \text{ ppm}$$

$$V1 = \frac{10 \text{ mL} \times 24,6 \text{ ppm}}{123 \text{ mL}}$$

$$V1 = 2 \text{ mL}$$

Keterangan :

V1 = Volume pemipetan larutan (mL)

V2 = Volume larutan dalam labu takar (mL)

C1 = Konsentrasi larutan baku (ppm)

C2 = Konsentrasi larutan yang dibuat (ppm)

Dipipet 2 mL larutan baku hidrokuinon 123 ppm dimasukkan ke dalam labu tentukur 10 mL dilarutkan dengan etanol p.a.

Lampiran 5. Perhitungan kurva kalibrasi baku

Nilai konsentrasi (x) dan absorbansi (y)		
Volume pemipetan (mL)	Konsentrasi (ppm)	Absorbansi
1	4,92	0,134
5	6,15	0,167
2	9,84	0,243
1	12,3	0,325
2	24,6	0,635
25	30,75	0,795

a. Perhitungan larutan kalibrasi baku 4,92 ppm

$$V1 \times C1 = V2 \times C2$$

$$V1 \times 123 \text{ ppm} = 25 \text{ mL} \times 4,92 \text{ ppm}$$

$$V1 = \frac{25 \text{ mL} \times 4,92 \text{ ppm}}{123 \text{ mL}}$$

$$V1 = 1 \text{ mL}$$

Sebanyak 1 mL larutan baku hidrokuinon 123 ppm dimasukkan ke dalam labu tentukur 25 mL dilarutkan dengan etanol p.a

b. Perhitungan larutan kalibrasi baku 6,15 ppm

$$V1 \times C1 = V2 \times C2$$

$$V1 \times 123 \text{ ppm} = 100 \text{ mL} \times 6,15 \text{ ppm}$$

$$V1 = \frac{100 \text{ mL} \times 6,15 \text{ ppm}}{123 \text{ mL}}$$

$$V1 = 5 \text{ mL}$$

Sebanyak 5 mL larutan baku hidrokuinon 123 ppm dimasukkan ke dalam labu tentukur 100 mL dilarutkan dengan etanol p.a

c. Perhitungan larutan kalibrasi baku 9,84 ppm

$$V1 \times C1 = V2 \times C2$$

$$V1 \times 123 \text{ ppm} = 25 \text{ mL} \times 9,84 \text{ ppm}$$

$$V1 = \frac{25 \text{ mL} \times 9,84 \text{ ppm}}{123 \text{ mL}}$$

$$V1 = 2 \text{ mL}$$

Sebanyak 2 mL larutan baku hidrokuinon 123 ppm dimasukkan ke dalam labu tentukur 25 mL dilarutkan dengan etanol p.a

d. Perhitungan larutan kalibrasi baku 12,3 ppm

$$\begin{aligned} V_1 \times C_1 &= V_2 \times C_2 \\ V_1 \times 123 \text{ ppm} &= 10 \text{ mL} \times 12,3 \text{ ppm} \\ V_1 &= \frac{10 \text{ mL} \times 12,3 \text{ ppm}}{123 \text{ mL}} \\ V_1 &= 1 \text{ mL} \end{aligned}$$

Sebanyak 1 mL larutan baku hidrokuinon 123 ppm dimasukkan ke dalam labu tentukur 10 mL dilarutkan dengan etanol p.a

e. Perhitungan larutan kalibrasi baku 24,6 ppm

$$\begin{aligned} V_1 \times C_1 &= V_2 \times C_2 \\ V_1 \times 123 \text{ ppm} &= 10 \text{ mL} \times 24,6 \text{ ppm} \\ V_1 &= \frac{10 \text{ mL} \times 24,6 \text{ ppm}}{123 \text{ mL}} \\ V_1 &= 2 \text{ mL} \end{aligned}$$

Sebanyak 2 mL larutan baku hidrokuinon 123 ppm dimasukkan ke dalam labu tentukur 10 mL dilarutkan dengan etanol p.a

f. Perhitungan larutan kalibrasi baku 30,75 ppm

$$\begin{aligned} V_1 \times C_1 &= V_2 \times C_2 \\ V_1 \times 123 \text{ ppm} &= 100 \text{ mL} \times 30,75 \text{ ppm} \\ V_1 &= \frac{100 \text{ mL} \times 30,75 \text{ ppm}}{123 \text{ mL}} \\ V_1 &= 25 \text{ mL} \end{aligned}$$

Sebanyak 25 mL larutan baku hidrokuinon 123 ppm dimasukkan ke dalam labu tentukur 100 mL dilarutkan dengan etanol p.a.

Keterangan :

- V1 = Volume pemipetan larutan (mL)
- V2 = Volume larutan dalam labu takar (mL)
- C1 = Konsentrasi larutan baku (ppm)
- C2 = Konsentrasi larutan yang dibuat (ppm)

Lampiran 6. Perhitungan kadar sampel C

Berat Sampel (mg)	Absorbansi
168	0,314
162	0,280
180	0,286
156	0,273
170	0,275

Sampel dimasukkan ke dalam labu tentukur 100 mL dilarutkan menggunakan etanol p.a sampai tepat tanda. larutan sampel dipipet 1 mL dimasukkan ke dalam labu tentukur 10 mL dilarutkan dengan menggunakan etanol p.a.

$$\begin{aligned}
 X_1 &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,314 - 0,004412568}{0,025660847} \\
 &= 12,06458353 \text{ mg/L}
 \end{aligned}$$

$$C_{\text{reg}} = 0,01206458353 \text{ mg/mL}$$

$$\begin{aligned}
 \% \text{ Kadar} &= \frac{C_{\text{reg}} \times \text{Faktor Pembuatan} \times \text{Faktor Pengenceran}}{\text{Berat sampel (mg)}} \times 100\% \\
 &= \frac{0,01206458353 \text{ mg/mL} \times 100 \text{ mL} \times 10}{168 \text{ (mg)}} \times 100\% \\
 &= 7,18\%
 \end{aligned}$$

$$\begin{aligned}
 X_2 &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,280 - 0,004412568}{0,025660847} \\
 &= 10,739607776781 \text{ mg/L}
 \end{aligned}$$

$$C_{\text{reg}} = 0,010739607776781 \text{ mg/mL}$$

$$\begin{aligned}
 \% \text{ Kadar} &= \frac{C_{\text{reg}} \times \text{Faktor Pembuatan} \times \text{Faktor Pengenceran}}{\text{Berat sampel (mg)}} \times 100\% \\
 &= \frac{0,010739607776781 \text{ mg/mL} \times 100 \text{ mL} \times 10}{162 \text{ (mg)}} \times 100\% \\
 &= 6,63\%
 \end{aligned}$$

$$X_3 = \frac{y-a}{\text{slope (b)}}$$

49

$$= \frac{0,286 - 0,004412568}{0,025660847}$$

$$= 10,973427026785 \text{ mg/L}$$

$$C_{\text{reg}} = 0,010973427026785 \text{ mg/mL}$$

$$\% \text{ Kadar} = \frac{C_{\text{reg}} \times \text{Faktor Pembuatan} \times \text{Faktor Pengenceran}}{\text{Berat sampel (mg)}} \times 100\%$$

$$= \frac{0,010973427026785 \text{ mg/mL} \times 100 \text{ mL} \times 10}{180 \text{ (mg)}} \times 100\%$$

$$= 6,10\%$$

$$X_4 = \frac{y-a}{\text{slope (b)}}$$

$$= \frac{0,273 - 0,004412568}{0,025660847}$$

$$= 10,466818651777 \text{ mg/L}$$

$$C_{\text{reg}} = 0,010466818651777 \text{ mg/mL}$$

$$\% \text{ Kadar} = \frac{C_{\text{reg}} \times \text{Faktor Pembuatan} \times \text{Faktor Pengenceran}}{\text{Berat sampel (mg)}} \times 100\%$$

$$= \frac{0,010466818651777 \text{ mg/mL} \times 100 \text{ mL} \times 10}{156 \text{ (mg)}} \times 100\%$$

$$= 6,71\%$$

$$X_5 = \frac{y-a}{\text{slope (b)}}$$

$$= \frac{0,275 - 0,004412568}{0,025660847}$$

$$= 10,544758401778 \text{ mg/L}$$

$$C_{\text{reg}} = 0,010544758401778 \text{ mg/mL}$$

$$\% \text{ Kadar} = \frac{C_{\text{reg}} \times \text{Faktor Pembuatan} \times \text{Faktor Pengenceran}}{\text{Berat sampel (mg)}} \times 100\%$$

$$= \frac{0,010544758401778 \text{ mg/mL} \times 100 \text{ mL} \times 10}{170 \text{ (mg)}} \times 100\%$$

$$= 6,20\%$$

$$\% \text{ Rata-Rata} = \frac{(7,18\% + 6,63\% + 6,10\% + 6,71\% + 6,20\%)}{5}$$

$$= 6,56\%$$

Keterangan :

- y = absorbansi sampel
 x = Konsentrasi larutan baku (ppm)
 a = *Intersept*
 b = *Slope* (kemiringan)
 r = Koefisien korelasi

Kadar hidrokuinon dalam sampel C

Replikasi	Absorbansi	Kadar (%)	Rata-Rata (%)	Nilai SD
1	0,314	7,18	6,56	0.433
2	0,280	6,63		
3	0,286	6,10		
4	0,273	6,71		
5	0,275	6,20		

Lampiran 7. Data dan perhitungan LOD dan LOQ

Hasil uji LOD dan LOQ

Konsentrasi (ppm)	Absorban si	y'	y-y'	(y-y') ²	x rata- rata (%)
4,92	0,134	0,130663934	0,003336066	1,11293E-05	14,76
6,15	0,167	0,162226776	0,004773224	2,27837E-05	
9,84	0,243	0,256915301	-0,013915301	0,000193636	
12,3	0,325	0,320040984	0,004959016	2,45918E-05	
24,6	0,635	0,635669399	-0,000669399	4,48095E-07	
30,75	0,795	0,793483607	0,001516393	2,29945E-06	
			sigma	0,000254888 6,3722E-05	
			sy/x	0,007982606	
			lod	1,026567798	
			loq	3,11081151	
			Vx0	2,11%	

$$\begin{aligned} \text{LOD} &= \frac{(sy/x) \times 3,3}{\text{Slope}} \\ &= \frac{0,007982606 \times 3,3}{0,0256} \\ &= 1,026567798 \text{ ppm} \end{aligned}$$

$$\begin{aligned} \text{LOQ} &= \frac{(sy/x) \times 10}{\text{Slope}} \\ &= \frac{0,007982606 \times 10}{0,0256} \\ &= 3,11081151 \text{ ppm} \end{aligned}$$

$$\begin{aligned} \text{Vx0} &= \frac{sy/x}{\text{slope} \times \text{rata-rata total}} \times 100\% \\ &= \frac{0,007982606}{0,025660847 \times 14,76} \times 100\% \\ &= 2,11\% \end{aligned}$$

Lampiran 8. Data dan perhitungan presisi

Replikasi	Absorbansi
1	0,347
2	0,346
3	0,341
4	0,351
5	0,347
6	0,330
7	0,339
8	0,341
9	0,333
10	0,347

Perhitungan konsentrasi sebenarnya (x)

Replikasi 1

$$\begin{aligned}
 X &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,347-0,004412568}{0,025660847} \\
 &= 13,35058951 \text{ ppm}
 \end{aligned}$$

Replikasi 2

$$\begin{aligned}
 X &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,346-0,004412568}{0,025660847} \\
 &= 13,31161963 \text{ ppm}
 \end{aligned}$$

Replikasi 3

$$\begin{aligned}
 X &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,341-0,004412568}{0,025660847} \\
 &= 13,11677026 \text{ ppm}
 \end{aligned}$$

Replikasi 4

$$\begin{aligned}
 X &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,351-0,004412568}{0,025660847}
 \end{aligned}$$

Replikasi 6

$$\begin{aligned}
 X &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,330-0,004412568}{0,025660847} \\
 &= 12,68810163 \text{ ppm}
 \end{aligned}$$

Replikasi 7

$$\begin{aligned}
 X &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,339-0,004412568}{0,025660847} \\
 &= 13,03883051 \text{ ppm}
 \end{aligned}$$

Replikasi 8

$$\begin{aligned}
 X &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,341-0,004412568}{0,025660847} \\
 &= 13,11677026 \text{ ppm}
 \end{aligned}$$

Replikasi 9

$$\begin{aligned}
 X &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,333-0,004412568}{0,025660847}
 \end{aligned}$$

$$= 13,50646901 \text{ ppm}$$

Replikasi 5

$$X = \frac{y-a}{\text{slope (b)}}$$

$$= \frac{0,347 - 0,004412568}{0,025660847}$$

$$= 13,35058951 \text{ ppm}$$

$$= 12,80501125 \text{ ppm}$$

Replikasi 10

$$X = \frac{y-a}{\text{slope (b)}}$$

$$= \frac{0,347 - 0,004412568}{0,025660847}$$

$$= 13,35058951 \text{ ppm}$$

Keterangan :

y = absorbansi sampel

x = Konsentrasi larutan baku (ppm)

a = *Intersept*b = *Slope* (kemiringan)

Hasil uji presisi

Replikasi	Absorbansi	x atau konsentrasi sebenarnya (ppm)	Rata-rata dari x sebenarnya (ppm)	SD	RSD (%)
1	0,347	13,35058951	13,16353411	0,262255648	1,99
2	0,346	13,31161963			
3	0,341	13,11677026			
4	0,351	13,50646901			
5	0,347	13,35058951			
6	0,330	12,68810163			
7	0,339	13,03883051			
8	0,341	13,11677026			
9	0,333	12,80501125			
10	0,347	13,35058951			

Lampiran 9. Data dan perhitungan akurasi

Konsentrasi (ppm)	Absorbansi
4.92	0.114
4.92	0.119
4.92	0.129
12.3	0.312
12.3	0.303
12.3	0.313
24.6	0.719
24.6	0.711
24.6	0.718

Perhitungan konsentrasi sebenarnya (x)

$$\begin{aligned}
 X_1 &= \frac{y-a}{\text{slope (b)}} & X_6 &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,114 - 0,004412568}{0,025660847} & &= \frac{0,313 - 0,004412568}{0,025660847} \\
 &= 4,270608553 \text{ ppm} & &= 12,02561375 \text{ ppm} \\
 \\
 X_2 &= \frac{y-a}{\text{slope (b)}} & X_7 &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,119 - 0,004412568}{0,025660847} & &= \frac{0,719 - 0,004412568}{0,025660847} \\
 &= 4,465457929 \text{ ppm} & &= 27,84738314 \text{ ppm} \\
 \\
 X_3 &= \frac{y-a}{\text{slope (b)}} & X_8 &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,129 - 0,004412568}{0,025660847} & &= \frac{0,711 - 0,004412568}{0,025660847} \\
 &= 4,855156683 \text{ ppm} & &= 27,53562413 \text{ ppm} \\
 \\
 X_4 &= \frac{y-a}{\text{slope (b)}} & X_9 &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,312 - 0,004412568}{0,025660847} & &= \frac{0,718 - 0,004412568}{0,025660847} \\
 &= 11,98664387 \text{ ppm} & &= 27,80841326 \text{ ppm} \\
 \\
 X_5 &= \frac{y-a}{\text{slope (b)}} \\
 &= \frac{0,303 - 0,004412568}{0,025660847} \\
 &= 11,63591499 \text{ ppm}
 \end{aligned}$$

Keterangan :

- y = absorbansi sampel
 x = Konsentrasi larutan baku (ppm)
 a = *Intersept*
 b = *Slope* (kemiringan)
 r = Koefisien korelasi

Perhitungan Akurasi

$$\text{Akurasi} = \frac{\text{Kadar diketahui}}{\text{Kadar sebenarnya}} \times 100\%$$

$$X_1 = \frac{4,92}{4,270608553} \times 100\% \\ = 115,21\%$$

$$X_6 = \frac{12,3}{12,02561375} \times 100\% \\ = 102,28\%$$

$$X_2 = \frac{4,92}{4,465457929} \times 100\% \\ = 110,18\%$$

$$X_7 = \frac{24,6}{27,84738314} \times 100\% \\ = 88,34\%$$

$$X_3 = \frac{4,92}{4,855156683} \times 100\% \\ = 101,34\%$$

$$X_8 = \frac{24,6}{27,53562413} \times 100\% \\ = 89,34\%$$

$$X_4 = \frac{12,3}{11,98664387} \times 100\% \\ = 102,61\%$$

$$X_9 = \frac{24,6}{27,80841326} \times 100\% \\ = 88,46\%$$



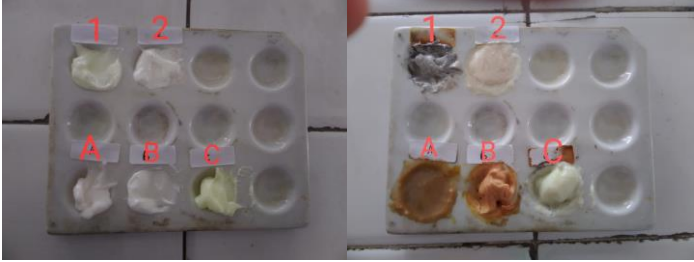
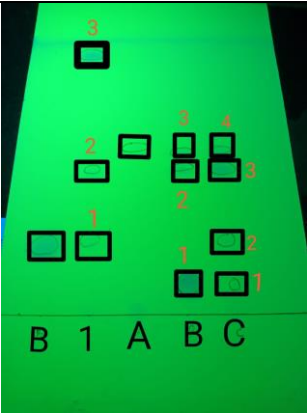
$$X_5 = \frac{12,3}{11,63591499} \times 100\% \\ = 105,71\%$$

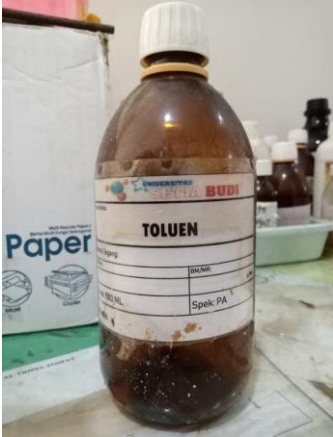
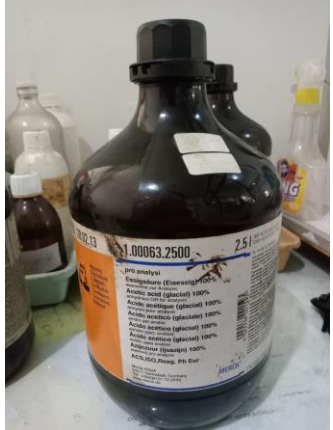
Hasil uji akurasi

Kadar diketahui (ppm)	Kadar sebenarnya (ppm)	Recovery (%)	Rata-rata recovery (%)	Rata-rata total recovery (%)
4,92	4,270608553	115,21	108,91	100,38
4,92	4,465457929	110,18		
4,92	4,855156683	101,34		
12,3	11,98664387	102,61	103,53	
12,3	11,63591499	105,71		
12,3	12,02561375	102,28		
24,6	27,84738314	88,34	88,71	
24,6	27,53562413	89,34		
24,6	27,80841326	88,46		

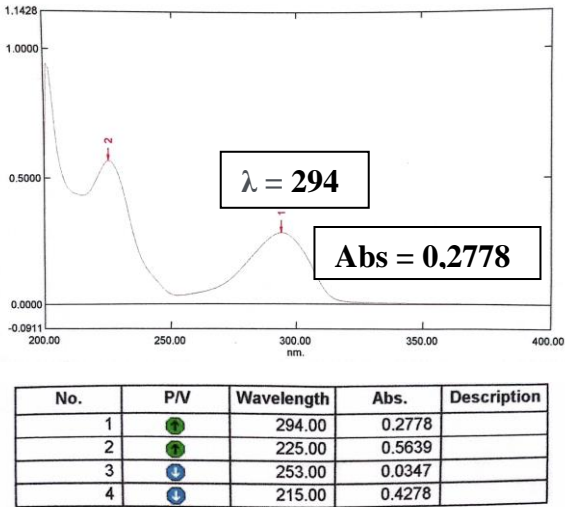
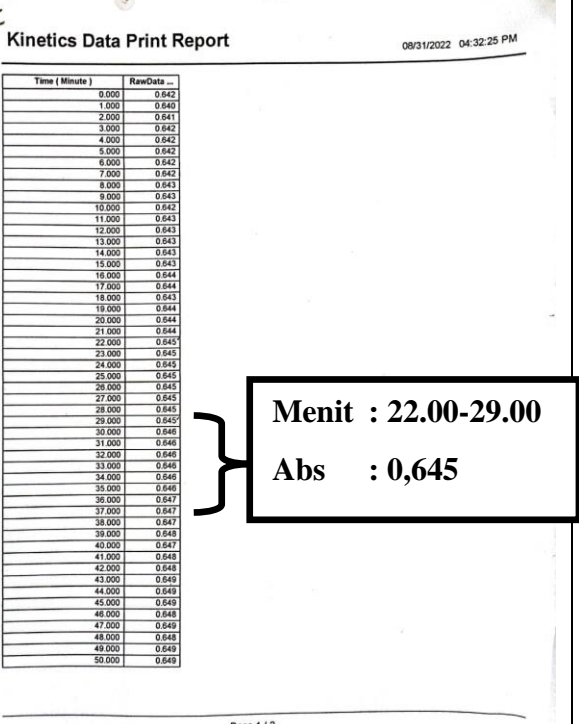
Lampiran 10. Gambar uji kualitatif dan kuantitatif

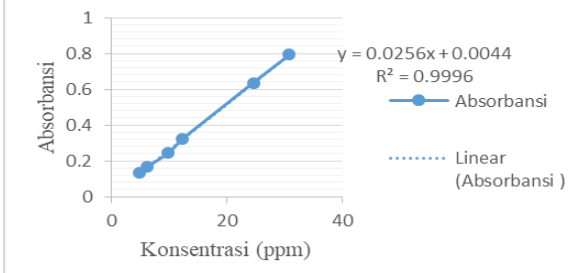
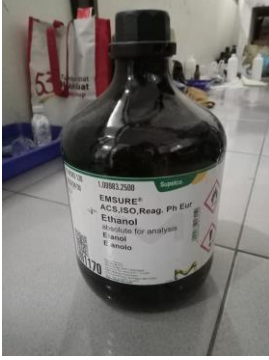
1. Uji Kuantitatif



No	Gambar	Keterangan
1.		Kontrol positif produk dan sampel A, B dan C
2.		Serbuk baku hidrokuinon
2	 <p>Keterangan : A, B, C : Sampel krim pemutih 1,2 : Kontrol positif produk</p>	Sebelum ditetesi FeCl_3 (kiri) dan setelah ditetesi FeCl_3 (kanan)
3.	 <p>Keterangan : Dari kiri ke kanan</p>	Uji KLT sampel dengan Spektrofotometer UV 254 nm

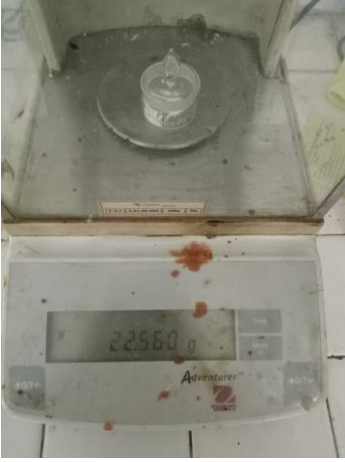

No	Gambar	Keterangan
	B : Baku hidrokuinon 1 : Kontrol positif produk A, B, C : Sampel krim pemutih	
4.		Pelarut toluen untuk fase gerak KLT
5.		Pelarut asam asetat glasial untuk fase gerak KLT



2. Uji Kuantitatif



No	Gambar	Keterangan																																																																																																								
1.	 <table border="1"> <thead> <tr> <th>No.</th> <th>P/V</th> <th>Wavelength</th> <th>Abs.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>●</td> <td>294.00</td> <td>0.2778</td> <td></td> </tr> <tr> <td>2</td> <td>●</td> <td>225.00</td> <td>0.5639</td> <td></td> </tr> <tr> <td>3</td> <td>↓</td> <td>253.00</td> <td>0.0347</td> <td></td> </tr> <tr> <td>4</td> <td>↓</td> <td>215.00</td> <td>0.4278</td> <td></td> </tr> </tbody> </table>	No.	P/V	Wavelength	Abs.	Description	1	●	294.00	0.2778		2	●	225.00	0.5639		3	↓	253.00	0.0347		4	↓	215.00	0.4278		<p>Hasil pengukuran panjang gelombang maksimum larutan baku hidroquinon dengan spektrofotometer UV</p>																																																																															
No.	P/V	Wavelength	Abs.	Description																																																																																																						
1	●	294.00	0.2778																																																																																																							
2	●	225.00	0.5639																																																																																																							
3	↓	253.00	0.0347																																																																																																							
4	↓	215.00	0.4278																																																																																																							
2.	 <p>Kinetics Data Print Report 08/31/2022 04:32:25 PM</p> <table border="1"> <thead> <tr> <th>Time (Minute)</th> <th>RawData ...</th> </tr> </thead> <tbody> <tr><td>0.000</td><td>0.642</td></tr> <tr><td>1.000</td><td>0.640</td></tr> <tr><td>2.000</td><td>0.641</td></tr> <tr><td>3.000</td><td>0.642</td></tr> <tr><td>4.000</td><td>0.642</td></tr> <tr><td>5.000</td><td>0.642</td></tr> <tr><td>6.000</td><td>0.642</td></tr> <tr><td>7.000</td><td>0.642</td></tr> <tr><td>8.000</td><td>0.643</td></tr> <tr><td>9.000</td><td>0.643</td></tr> <tr><td>10.000</td><td>0.642</td></tr> <tr><td>11.000</td><td>0.643</td></tr> <tr><td>12.000</td><td>0.643</td></tr> <tr><td>13.000</td><td>0.643</td></tr> <tr><td>14.000</td><td>0.643</td></tr> <tr><td>15.000</td><td>0.643</td></tr> <tr><td>16.000</td><td>0.644</td></tr> <tr><td>17.000</td><td>0.644</td></tr> <tr><td>18.000</td><td>0.643</td></tr> <tr><td>19.000</td><td>0.644</td></tr> <tr><td>20.000</td><td>0.644</td></tr> <tr><td>21.000</td><td>0.644</td></tr> <tr><td>22.000</td><td>0.645</td></tr> <tr><td>23.000</td><td>0.645</td></tr> <tr><td>24.000</td><td>0.645</td></tr> <tr><td>25.000</td><td>0.645</td></tr> <tr><td>26.000</td><td>0.645</td></tr> <tr><td>27.000</td><td>0.645</td></tr> <tr><td>28.000</td><td>0.645</td></tr> <tr><td>29.000</td><td>0.645</td></tr> <tr><td>30.000</td><td>0.646</td></tr> <tr><td>31.000</td><td>0.646</td></tr> <tr><td>32.000</td><td>0.646</td></tr> <tr><td>33.000</td><td>0.646</td></tr> <tr><td>34.000</td><td>0.646</td></tr> <tr><td>35.000</td><td>0.646</td></tr> <tr><td>36.000</td><td>0.647</td></tr> <tr><td>37.000</td><td>0.647</td></tr> <tr><td>38.000</td><td>0.647</td></tr> <tr><td>39.000</td><td>0.648</td></tr> <tr><td>40.000</td><td>0.647</td></tr> <tr><td>41.000</td><td>0.648</td></tr> <tr><td>42.000</td><td>0.648</td></tr> <tr><td>43.000</td><td>0.649</td></tr> <tr><td>44.000</td><td>0.649</td></tr> <tr><td>45.000</td><td>0.649</td></tr> <tr><td>46.000</td><td>0.648</td></tr> <tr><td>47.000</td><td>0.649</td></tr> <tr><td>48.000</td><td>0.648</td></tr> <tr><td>49.000</td><td>0.649</td></tr> <tr><td>50.000</td><td>0.649</td></tr> </tbody> </table> <p>Menit : 22.00-29.00 Abs : 0,645</p> <p>Page 1 / 2</p>	Time (Minute)	RawData ...	0.000	0.642	1.000	0.640	2.000	0.641	3.000	0.642	4.000	0.642	5.000	0.642	6.000	0.642	7.000	0.642	8.000	0.643	9.000	0.643	10.000	0.642	11.000	0.643	12.000	0.643	13.000	0.643	14.000	0.643	15.000	0.643	16.000	0.644	17.000	0.644	18.000	0.643	19.000	0.644	20.000	0.644	21.000	0.644	22.000	0.645	23.000	0.645	24.000	0.645	25.000	0.645	26.000	0.645	27.000	0.645	28.000	0.645	29.000	0.645	30.000	0.646	31.000	0.646	32.000	0.646	33.000	0.646	34.000	0.646	35.000	0.646	36.000	0.647	37.000	0.647	38.000	0.647	39.000	0.648	40.000	0.647	41.000	0.648	42.000	0.648	43.000	0.649	44.000	0.649	45.000	0.649	46.000	0.648	47.000	0.649	48.000	0.648	49.000	0.649	50.000	0.649	<p>Data <i>operating time</i> larutan baku hidroquinon</p>
Time (Minute)	RawData ...																																																																																																									
0.000	0.642																																																																																																									
1.000	0.640																																																																																																									
2.000	0.641																																																																																																									
3.000	0.642																																																																																																									
4.000	0.642																																																																																																									
5.000	0.642																																																																																																									
6.000	0.642																																																																																																									
7.000	0.642																																																																																																									
8.000	0.643																																																																																																									
9.000	0.643																																																																																																									
10.000	0.642																																																																																																									
11.000	0.643																																																																																																									
12.000	0.643																																																																																																									
13.000	0.643																																																																																																									
14.000	0.643																																																																																																									
15.000	0.643																																																																																																									
16.000	0.644																																																																																																									
17.000	0.644																																																																																																									
18.000	0.643																																																																																																									
19.000	0.644																																																																																																									
20.000	0.644																																																																																																									
21.000	0.644																																																																																																									
22.000	0.645																																																																																																									
23.000	0.645																																																																																																									
24.000	0.645																																																																																																									
25.000	0.645																																																																																																									
26.000	0.645																																																																																																									
27.000	0.645																																																																																																									
28.000	0.645																																																																																																									
29.000	0.645																																																																																																									
30.000	0.646																																																																																																									
31.000	0.646																																																																																																									
32.000	0.646																																																																																																									
33.000	0.646																																																																																																									
34.000	0.646																																																																																																									
35.000	0.646																																																																																																									
36.000	0.647																																																																																																									
37.000	0.647																																																																																																									
38.000	0.647																																																																																																									
39.000	0.648																																																																																																									
40.000	0.647																																																																																																									
41.000	0.648																																																																																																									
42.000	0.648																																																																																																									
43.000	0.649																																																																																																									
44.000	0.649																																																																																																									
45.000	0.649																																																																																																									
46.000	0.648																																																																																																									
47.000	0.649																																																																																																									
48.000	0.648																																																																																																									
49.000	0.649																																																																																																									
50.000	0.649																																																																																																									



No	Gambar	Keterangan																						
	<p style="text-align: center;">Kinetics Data Print Report 08/31/2022 04:32:25 PM</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Time (Minute)</th> <th>RawData</th> </tr> </thead> <tbody> <tr><td>51.000</td><td>0.850</td></tr> <tr><td>52.000</td><td>0.849</td></tr> <tr><td>53.000</td><td>0.850</td></tr> <tr><td>54.000</td><td>0.850</td></tr> <tr><td>55.000</td><td>0.850</td></tr> <tr><td>56.000</td><td>0.850</td></tr> <tr><td>57.000</td><td>0.851</td></tr> <tr><td>58.000</td><td>0.851</td></tr> <tr><td>59.000</td><td>0.851</td></tr> <tr><td>60.000</td><td>0.852</td></tr> </tbody> </table> <p style="text-align: center;">Page 2 / 2</p>	Time (Minute)	RawData	51.000	0.850	52.000	0.849	53.000	0.850	54.000	0.850	55.000	0.850	56.000	0.850	57.000	0.851	58.000	0.851	59.000	0.851	60.000	0.852	
Time (Minute)	RawData																							
51.000	0.850																							
52.000	0.849																							
53.000	0.850																							
54.000	0.850																							
55.000	0.850																							
56.000	0.850																							
57.000	0.851																							
58.000	0.851																							
59.000	0.851																							
60.000	0.852																							
3.	<p style="text-align: center;">Grafik Hubungan Antara Konsentrasi (x) dan absorbansi (y)</p>  <p style="text-align: center;">Konsentrasi (ppm)</p>	Grafik antara konsentrasi (x) dan absorbansi (y) larutan baku hidrokuinon																						
4.		Etanol p.a yang digunakan sebagai pelarut																						

No	Gambar	Keterangan
5.		Alat Spektrofotometer UV
6.		Penimbangan sampel untuk replikasi I

No	Gambar	Keterangan
		
7.		Penimbangan sampel untuk replikasi II

No	Gambar	Keterangan
8.		Penimbangan sampel untuk replikasi III
9.		Penimbangan sampel untuk replikasi IV

No	Gambar	Keterangan
		
10.		Penimbangan sampel untuk replikasi V

No	Gambar	Keterangan
11.		Proses tunggu <i>operating time</i> sampel replikasi I-V
12.		Proses penyaringan sampel replikasi I-V