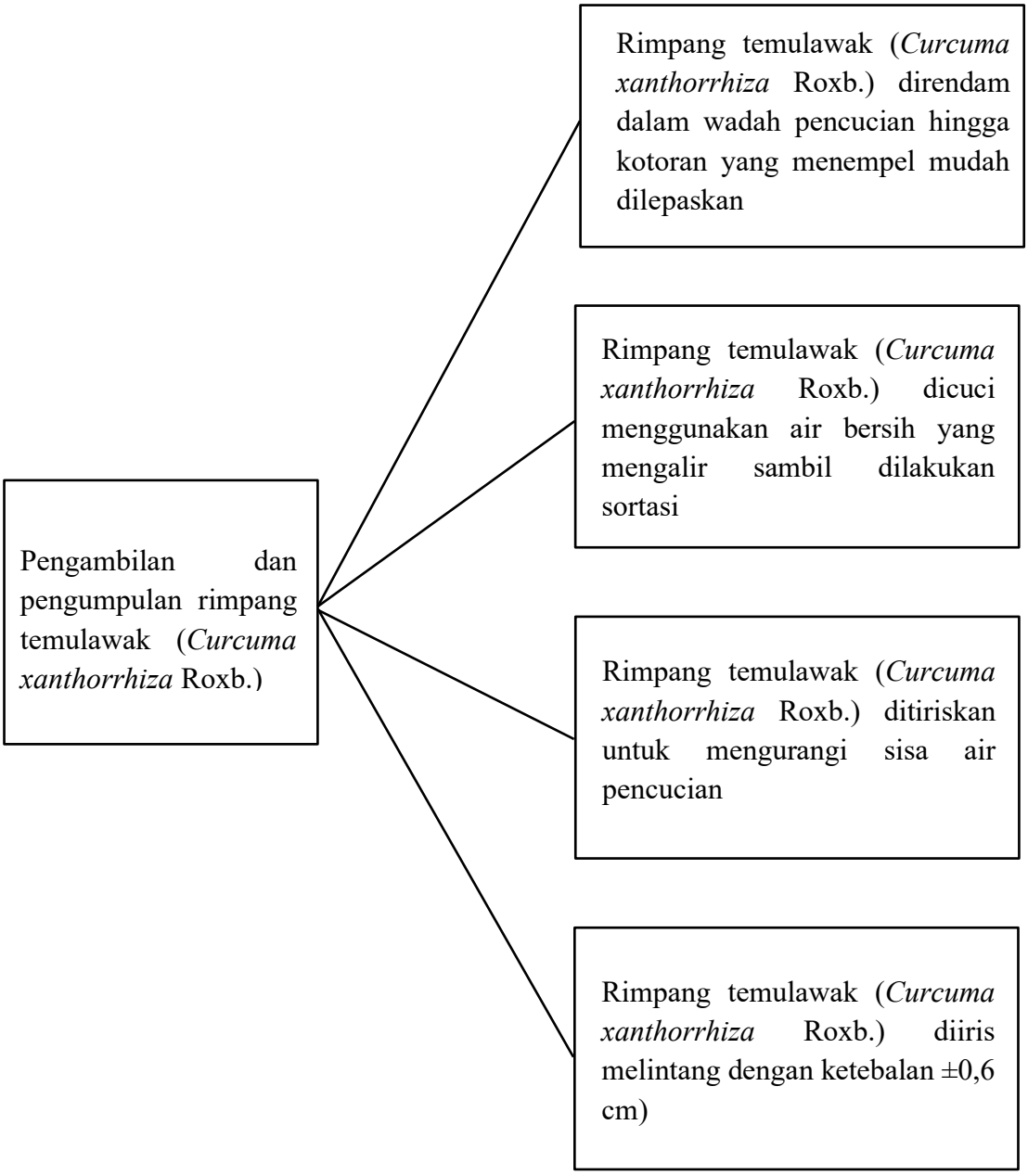
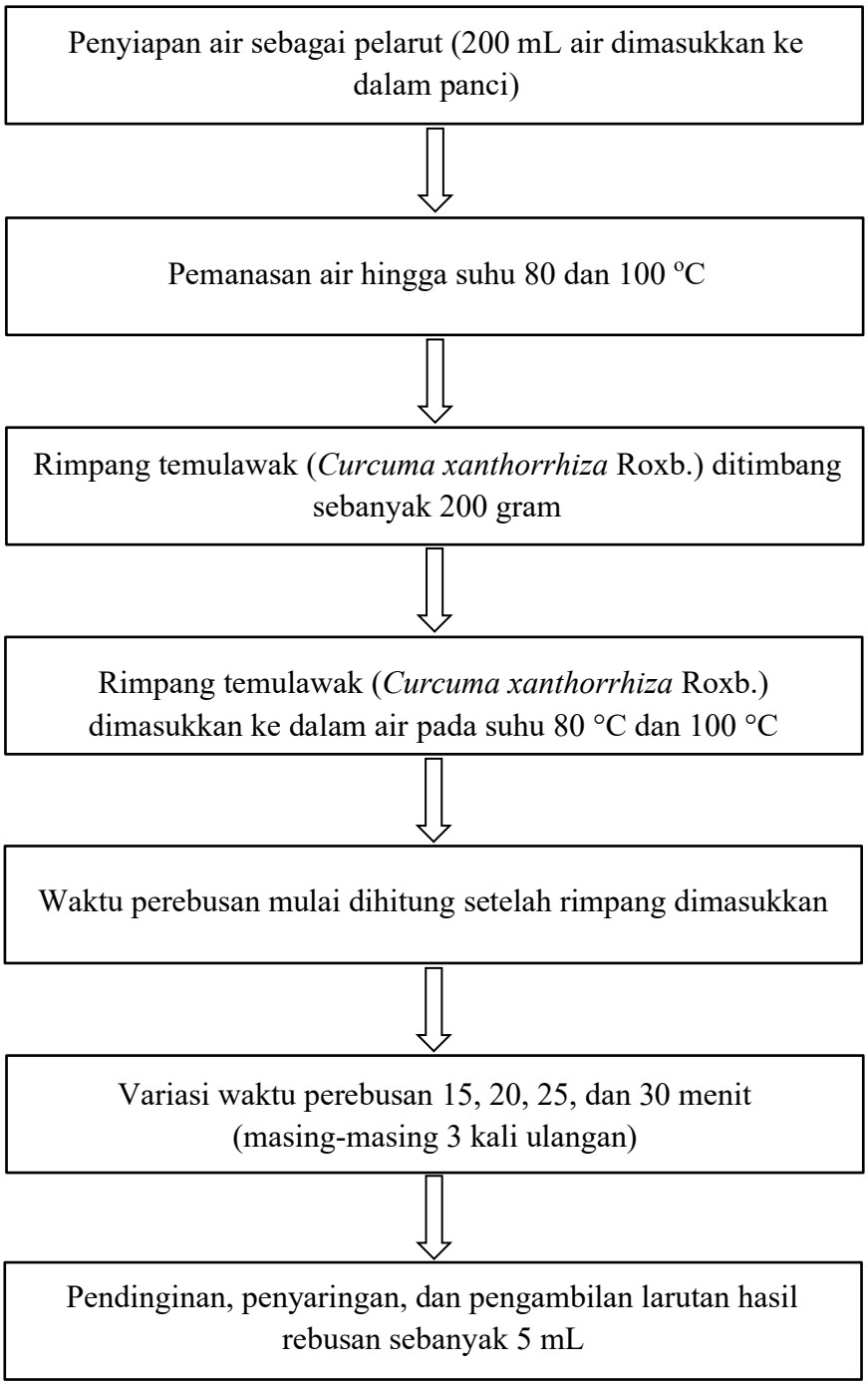
LAMPIIRAN

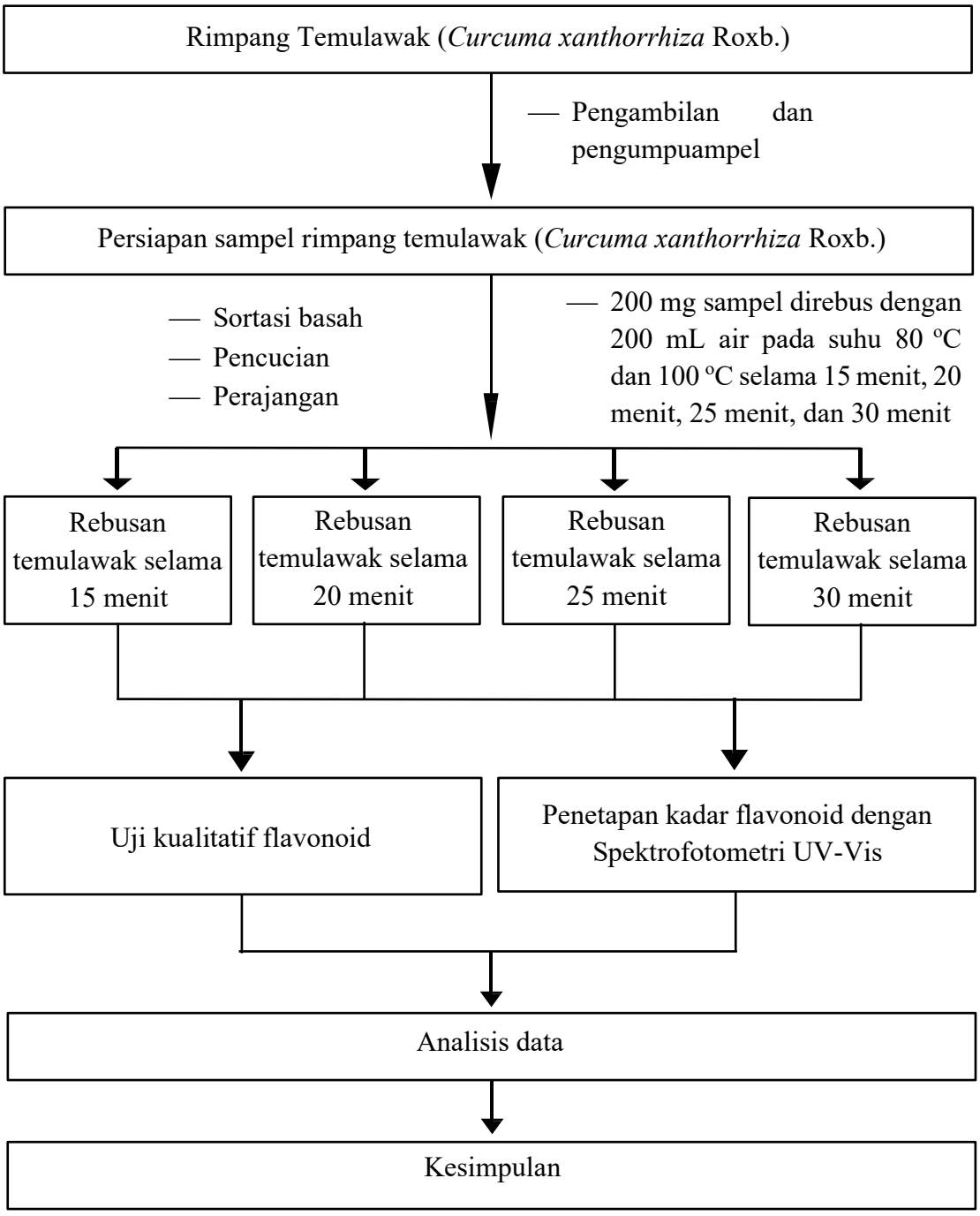
Lampiran 1. Skema Pengolahan Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb.)



Lampiran 2. Skema Pembuatan Rebusan Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb.)



Lampiran 3. Skema Alur Penelitian



Lampiran 4. Pengolahan rimpang temulawak

Pengambilan sampel

Sortasi basah

Pencucian

Perajangan

Lampiran 5. Pembuatan Rebusan Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb.)

Penimbangan sampel


Pengukuran pelarut

Mencapai suhu yang di inginkan (80° C dan 100°C)

Masukkan sampel

Perebusan suhu (80° C dan 100°C)

Pengadukan

Massukan sampel ke wadah

Penyaringan

Lampiran Lampiran 6. Hasil Perebusan

15 menit 80 ºC dan 100 ºC

20 menit 80 ºC dan 100 ºC

25 menit 80 ºC dan 100 ºC

30 menit 80 ºC dan 100 ºC

Lampiran 7. Uji Kualitatif Flavonoid Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb.)

Pereaksi $AlCl_3$,

Pereaksi HCl pekat dan serbuk magnesium

Pereaksi NaOH encer

Lampiran 8. Pembuatan Reagen Kimia

1. Pembuatan $AlCl_3$ 10% sebanyak 25 mL

   Massa $AlCl_3$ $= \frac{10\ g}{100\ \text{mL}} \times 25\ \text{mL}$

   $= 2{,}5\ \text{g}$

   Jadi, $AlCl_3$ di timbang sebanyak 2,5 gram kemudian dilarutkan dalamaquades ad 25 mL dalam labu ukur 25 mL.

2. Pembuatan CH_3COOK 1 M

   Massa (g) = Molaritas x BM x V (L)

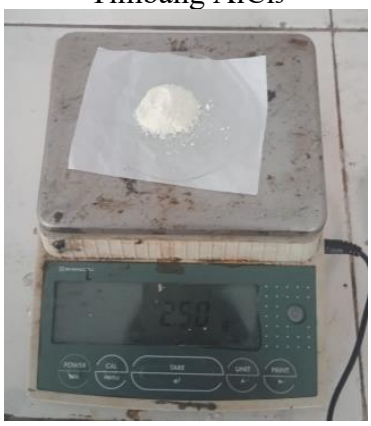
   = 1 x 98,14 x 0,025 L

   = 2,4535 g

   Jadi, CH_3COOK di timbang sebanyak 2,4535 gram kemudian dilarutkan dalamaquades ad 25 mL dalam labu ukur 25 mL.

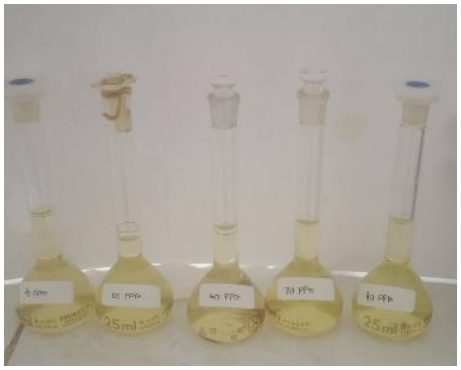
Lampiran 9. Prosedur Penetapan Kadar Flavonoid

Timbang $AlCl_3$



Timbang CH_3COOK

Pembuatan kurva baku



Penetapan kadar flavonoid total

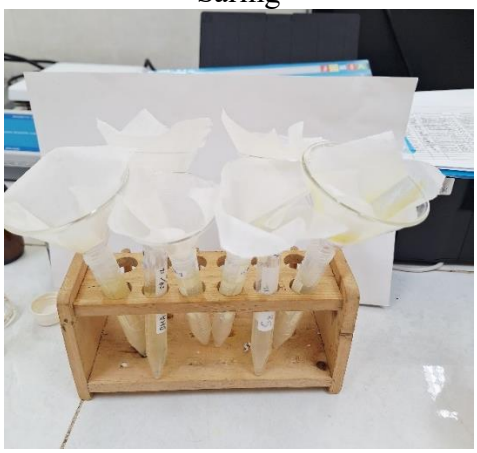
Sentrifugasi

Saring

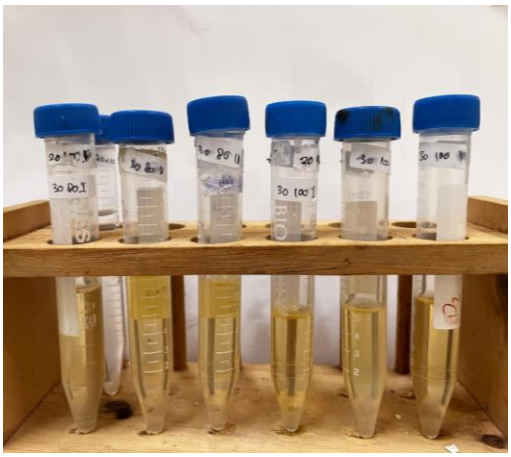
Sampel + reagen

Sentrifugasi

Saring



Inkubasi



Lampiran 10. Perhitungan Larutan Standar dan Deret Baku

1. Perhitungan larutan standar

$$C = \frac{10\ mg\ kuersetin}{0{,}1\ L} = 100\ ppm$$

2. Perhitungan deret baku

$$C1\ x\ V1 = C2\ x\ V2$$

$$V1\ = \frac{C2\ x\ V2}{C1}$$

$$40\ ppm = \frac{40\ ppm\ x\ 25\ mL}{100\ ppm} = 10\ mL$$

$$50\ ppm = \frac{50\ ppm\ x\ 25\ mL}{100\ ppm} = 12{,}5\ mL$$

$$60\ ppm = \frac{60\ ppm\ x\ 25\ mL}{100\ ppm} = 15\ mL$$

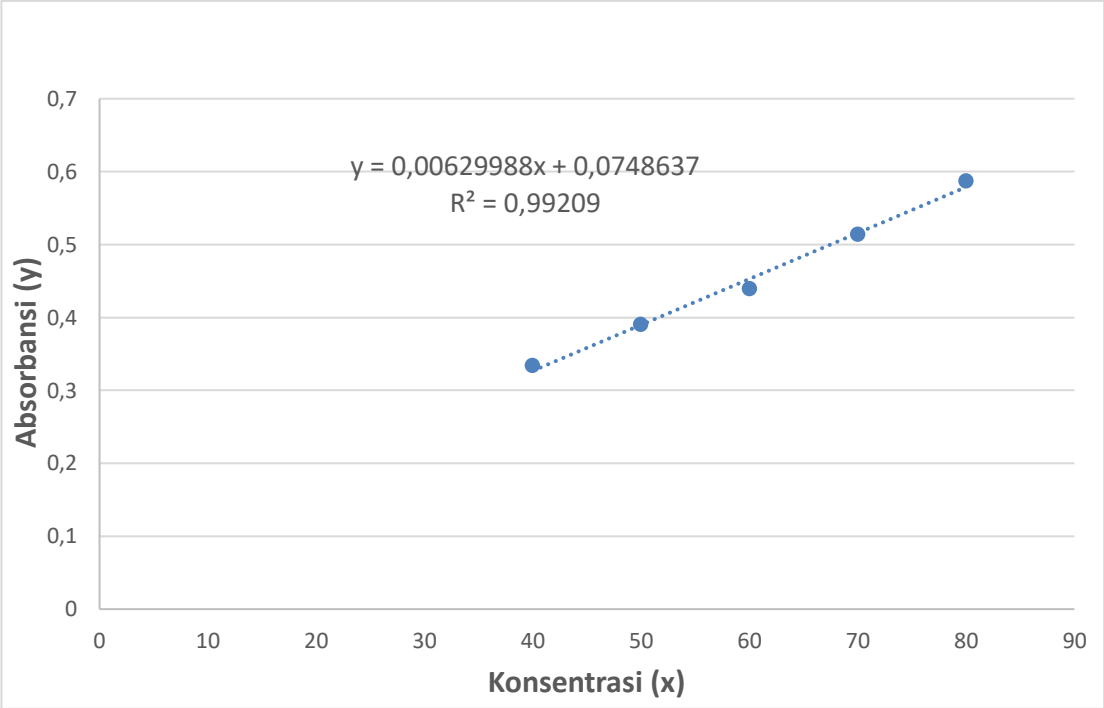
$$70\ ppm = \frac{70\ ppm\ x\ 25\ mL}{100\ ppm} = 17{,}5\ mL$$

$$80\ ppm = \frac{80\ ppm\ x\ 25\ mL}{100\ ppm} = 20\ mL$$

Lampiran 11. Lamda Maksimal

No.	P/V	Wavelength nm.	Abs.	Description
1		436,0	0,4586	

Lampiran 12. Gambar Kurva Baku



Lampiran 13. Perhitungan Penetapan Kadar Flavonoid Total

1. Perhitungan absorbansi

   $y = a + bx$

   $x = \frac{y-a}{b}$

   $y = 0{,}0748637 + 0{,}00629988x$

Waktu dan Suhu Perebusan	Pengulangan 1	Pengulangan 2	Pengulangan 3
15 menit 80 °C	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}098 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}0231363}{0{,}00629988}$ x = 3,6725 mg/L	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}0935 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}0186363}{0{,}00629988}$ x = 2,9582 mg/L	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}0945 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}0196363}{0{,}00629988}$ x = 3,1170 mg/L
15 menit 100 °C	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}1441 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}0692363}{0{,}00629988}$ x = 10,9901 mg/L	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}2318 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}1569363}{0{,}00629988}$ x = 24,9110mg/L	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}3447 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}2698363}{0{,}00629988}$ x = 42,8320 mg/L
20 menit 80 °C	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}1143 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}0394363}{0{,}00629988}$ x= 6,2599 mg/L	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}2242 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}1493363}{0{,}00629988}$ x = 23,7047 mg/L	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}1778 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}1029363}{0{,}00629988}$ x=16,3395 mg/L
20 menit 100 °C	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}2127 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}1378363}{0{,}00629988}$ x = 21,8792 mg/L	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}1977 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}1228363}{0{,}00629988}$ x = 19,4982 mg/L	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}2874 - 0{,}0748637}{0{,}00629988}$ $x = \frac{0{,}2125363}{0{,}00629988}$ x =33,7366 mg/L
25 menit 80 °C	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}4854 - 0{,}0748637}{0{,}00629988}$	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}5843 - 0{,}0748637}{0{,}00629988}$	$y = 0{,}0748637 + 0{,}00629988x$ $x = \frac{0{,}3172 - 0{,}0748637}{0{,}00629988}$

	$x = \frac{0,4105363}{0,00629988}$ x = 65,1658 mg/L	$x = \frac{0,5094363}{0,00629988}$ x = 80,8645 mg/L	$x = \frac{0,24423363}{0,00629988}$ x =38,46682 mg/L
25 menit 100 ºC	y = 0,0748637 + 0,00629988x $x = \frac{0,3236 - 0,0748637}{0,00629988}$ $x = \frac{0,2487363}{0,00629988}$ x = 39,4828mg/L	y = 0,0748637 + 0,00629988x $x = \frac{0,5087 - 0,0748637}{0,00629988}$ $x = \frac{0,43338363}{0,00629988}$ x = 68,8643mg/L	y = 0,0748637 + 0,00629988x $x = \frac{0,4159 - 0,0748637}{0,00629988}$ $x = \frac{0,3410363}{0,00629988}$ x = 54,1338 mg/L
30 menit 80 ºC	y = 0,0748637 + 0,00629988x $x = \frac{0,2674 - 0,0748637}{0,00629988}$ $x = \frac{0,1925363}{0,00629988}$ x = 30,56199 mg/L	y = 0,0748637 + 0,00629988x $x = \frac{0,2208 - 0,0748637}{0,00629988}$ $x = \frac{0,14599363}{0,00629988}$ x = 23,1650 mg/L	y = 0,0748637 + 0,00629988x $x = \frac{0,236 - 0,0748637}{0,00629988}$ $x = \frac{0,`1611363}{0,00629988}$ x =25,5777 mg/L
30 menit 100 ºC	y = 0,0748637 + 0,00629988x $x = \frac{0,3045 - 0,0748637}{0,00629988}$ $x = \frac{0,2296363}{0,00629988}$ x = 36,4510 mg/L	y = 0,0748637 + 0,00629988x $x = \frac{0,3602 - 0,0748637}{0,00629988}$ $x = \frac{0,2853363}{0,00629988}$ x = 45,2924 mg/L	y = 0,0748637 + 0,00629988x $x = \frac{0,3506 - 0,0748637}{0,00629988}$ $x = \frac{0,2757363}{0,00629988}$ x = 43,7686 mg/L

2. Perhitungan Kadar Flavonoid Total

Karena hasil penelitian dinyatakan dalam mg QE/ 100 mL , maka digunakan rumus

$$F = C \times FP \times 0{,}1\ L$$

Keterangan :

F = kadar favonoid total (mg QE/ 100 mL)

C = konsentrasi (mg/L)

FP = Faktor pengenceran

0,1 L = faktor konversi dari liter ke 100 mL

Faktor pengenceran dihitung sebagai berikut :

$$FP = \frac{Volume\ akhir}{Volume\ sampel}$$

$$FP = \frac{10}{5}$$

$$FP = 2$$

Waktu dan Suhu Perebusan	Pengulangan 1	Pengulangan 2	Pengulangan 3
15 menit 80 ºC	C = 3,6725 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 3{,}6725 \times 2 \times 0{,}1$ $F = 0{,}7345$ mg QE/100 mL	C = 2,9582 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 2{,}9582 \times 2 \times 0{,}1$ $F = 0{,}5917$ mg QE/100 mL	C = 3,1170 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 3{,}1170 \times 2 \times 0{,}1$ $F = 0{,}6234$ mg QE/ 100 mL
15 menit 100 ºC	C =10,9901 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 10{,}9901 \times 2 \times 0{,}1$ $F = 2{,}1981$ mg QE/ 100 mL	C = 24,9110 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 24{,}9110 \times 2 \times 0{,}1$ $F = 4{,}9822$ mg QE/100 mL	C = 42,8320 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 42{,}8320 \times 2 \times 0{,}1$ $F = 8{,}5664$ mg QE/ 100 mL
20 menit 80 ºC	C = 6,2599 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 6{,}2599 \times 2 \times 0{,}1$ $F = 1{,}2520$ mg QE/ 100 mL	C = 23,7047 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 23{,}7047 \times 2 \times 0{,}1$ $F = 4{,}7410$ mg QE/ 100 mL	C = 16,3395 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 16{,}3395 \times 2 \times 0{,}1$ $F = 3{,}2679$ mg QE/ 100 mL
20 menit 100 ºC	C = 21,8792 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 21{,}8792 \times 2 \times 0{,}1$ $F = 4{,}3759$ mg QE/ 100 mL	C = 19,4982 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 19{,}4982 \times 2 \times 0{,}1$ $F = 3{,}8997$ mg QE/ 100 mL	C = 33,7366 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 33{,}7366 \times 2 \times 0{,}1$ $F = 6{,}7474$ mg QE/ 100 mL
25 menit 80 ºC	C = 65,1658 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 65{,}1658 \times 2 \times 0{,}1$ $F = 13{,}0332$ mg QE/ 100 mL	C = 80,8645 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 80{,}8645 \times 2 \times 0{,}1$ $F = 16{,}1730$ mg QE/ 100 mL	C = 38,4669 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 38{,}4669 \times 2 \times 0{,}1$ $F = 7{,}6934$ mg QE/ 100 mL
25 menit 100 ºC	C = 39,4828 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 39{,}4828 \times 2 \times 0{,}1$	C = 68,8643 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 68{,}8643 \times 2 \times 0{,}1$ $F = 13{,}7729$mg	C= 54,1338 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 54{,}1338 \times 2 \times 0{,}1$ $F = 10{,}8268$ mg

	F = 7,8966 mg QE/ 100 mL	QE/ 100 mL	QE/ 100 mL
30 menit 80 °C	C= 30,5620 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 30{,}5620 \times 2 \times 0{,}1$ F = 6,1124 mg QE/ 100 mL	C = 23,1650 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 23{,}1650 \times 2 \times 0{,}1$ F = 4,633 mg QE/ 100 mL	C = 25,5777 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 25{,}5777 \times 2 \times 0{,}1$ $F = 5{,}1156$ mg QE/ 100 mL
30 menit 100 °C	C = 36,4510 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 36{,}4510 \times 2 \times 0{,}1$ F = 7,2902 mg QE/ 100 mL	C = 45,2924 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 45{,}2924 \times 2 \times 0{,}1$ F = 9,0585 mg QE/ 100 mL	C = 43,7686 mg/L FP = 2 $F = C \times FP \times 0{,}1\ L$ $F = 43{,}7686 \times 2 \times 0{,}1$ F = 8,7538 mg QE/ 100 mL

Lampiran 14. Perhitungan % Koefisien Variansi

$$\% \text{ KV} = \frac{\text{Standar Deviasi (SD)}}{\text{Rata} - \text{rata } (\bar{x})} \text{x } 100\%$$

$$\text{SD} = \sqrt{\frac{\sum(xi - \bar{x})^2}{n-1}}$$

Waktu Perebusan	Suhu Perebusan 80 °C	Suhu Perebusan 100 °C
15 menit	$x1 = 0{,}7345$ mg QE/ 100 mL $x2 = 0{,}5917$ mg QE/ 100 mL $x3 = 0{,}6234$ mg QE/ 100 mL $(\bar{x}) = \frac{x1 + x2 + x3}{3}$ $(\bar{x}) = 0{,}6499$ mg QE/ 100 mL $SD = 0{,}0750$ $\%KV = \frac{SD}{\bar{x}} \times 100\%$ $\%KV = \frac{0{,}0750}{0{,}6499} \times 100\%$ $\%KV = 11{,}5391\%$	$x1 = 2{,}1981$ mg QE/ 100 mL $x2 = 4{,}9822$ mg QE/ 100 mL $x3 = 8{,}5664$ mg QE/ 100 mL $(\bar{x}) = \frac{x1 + x2 + x3}{3}$ $(\bar{x}) = 5{,}2489$ mg QE/ 100 mL $SD = 3{,}1926$ $\%KV = \frac{SD}{\bar{x}} \times 100\%$ $\%KV = \frac{3{,}1926}{5{,}2489} \times 100\%$ $\%KV = 60{,}8226\ \%$
20 menit	$x1 = 1{,}2520$ mg QE/ 100 mL $x2 = 4{,}7410$ mg QE/ 100 mL $x3 = 3{,}2679$ mg QE/ 100 mL $(\bar{x}) = \frac{x1 + x2 + x3}{3}$ $(\bar{x}) = 3{,}0870$ mg QE/ 100 mL $SD = 1{,}7516$	$x1 = 4{,}3759$ mg QE/ 100 mL $x2 = 3{,}8997$ mg QE/ 100 mL $x3 = 6{,}7474$ mg QE/ 100 mL $(\bar{x}) = \frac{x1 + x2 + x3}{3}$ $(\bar{x}) = 5{,}0076$ mg QE/ 100 mL $SD = 1{,}5254$

	$\%KV = \frac{SD}{\bar{x}} \times 100\%$ $\%KV = \frac{1,7516}{3,0870} \times 100\%$ $\%KV = 56,7393\ \%$	$\%KV = \frac{SD}{\bar{x}} \times 100\%$ $\%KV = \frac{1,5254}{5,0076} 100\%$ $\%KV = 30,4603\ \%$
25 menit	$x1 = 13,0332$ mg Q/ 100 mL $x2 = 16,1730$ mg QE/ 100 mL $x3 = 7,6934$ mg QE/ 100 mL $(\bar{x}) = \frac{x1 + x2 + x3}{3}$ $(\bar{x}) = 12,2999$ mg Q/ 100 mL $SD = 4,2871$ $\%KV = \frac{SD}{\bar{x}} \times 100\%$ $\%KV = \frac{4,2871}{12,2999} \times 100\%$ $\%KV = 34,8548\ \%$	$x1 = 7,8966$ mg QE/ 100 mL $x2 = 13,7729$ mg QE/ 100 mL $x3 = 10,8268$ mg QE/ 100 mL $(\bar{x}) = \frac{x1 + x2 + x3}{3}$ $(\bar{x}) = 10,8321$ mg Q/ 100 mL $SD = 2,9382$ $\%KV = \frac{SD}{\bar{x}} \times 100\%$ $\%KV = \frac{2,9382}{10,9832} \times 100\%$ $\%KV = 27,1245\%$
30 menit	$x1 = 6,1124$ mg QE/ 100 mL $x2 = 4,633$ mg QE/ 100 mL $x3 = 5,1156$ mg QE/ 100 mL $(\bar{x}) = \frac{x1 + x2 + x3}{3}$ $(\bar{x}) = 5,287$ mg QE/ 100 mL $SD = 0,7544$ $\%KV = \frac{SD}{\bar{x}} \times 100\%$ $\%KV = \frac{0,7544}{5,287} \times 100\%$ $\%KV = 14,2698\ \%$	$x1 = 7,2902$ mg QE/ 100 mL $x2 = 9,0585$ mg QE/ 100 mL $x3 = 8,7538$ mg QE/ 100 mL $(\bar{x}) = \frac{x1 + x2 + x3}{3}$ $(\bar{x}) = 8,3675$ mg QE/ 100 mL $SD = 0,9453$ $\%KV = \frac{SD}{\bar{x}} \times 100\%$ $\%KV = \frac{0,9453}{8,3675} \times 100\%$ $\%KV = 11,2976\ \%$

Lampiran 15. Analisis Perbandingan

1. Uji normalitas

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for KTF	.128	24	.200*	.964	24	.531

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

2. Uji Homogeitas

Levene's Test of Equality of Error Variances[a,b]

		Levene Statistic	df1	df2	Sig.
Kadar Flavonoid Total (mg QE/ 100mL)	Based on Mean	2.076	7	16	.107
	Based on Median	1.258	7	16	.330
	Based on Median and with adjusted df	1.258	7	7.669	.377
	Based on trimmed mean	2.023	7	16	.115

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: Kadar Flavonoid Total (mg QE/ 100mL)

b. Design: Intercept + SP + WP + SP * WP

3. Statistik desktriptif

Descriptive Statistics

Dependent Variable: Kadar Flavonoid Total (mg QE/ 100mL)

Suhu Perebusan Rimpang Temulawak (° C)	Waktu Perebusan Rimpang Temulawak (menit)	Mean	Std. Deviation	N
80	15	.6498420077	.0750143754	3
	20	3.106561077	1.754872450	3
	25	12.29979936	4.287066774	3
	30	5.286967371	.7544486456	3
	Total	5.335792454	4.957536211	12
100	15	5.248871407	3.192551685	3
	20	5.007596970	1.525335858	3
	25	10.83204654	2.938154775	3
	30	8.367449327	.9453055225	3
	Total	7.363991060	3.208975595	12
Total	15	2.949356707	3.228703578	6
	20	4.057079024	1.801852368	6
	25	11.56592295	3.383927823	6
	30	6.827208349	1.852546582	6
	Total	6.349891757	4.213348992	24

4. Hasil uji *Two-Way ANOVA*

Tests of Between-Subjects Effects

Dependent Variable: Kadar Flavonoid Total (mg QE/ 100mL)

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	320.146[a]	7	45.735	8.301	.000
Intercept	967.707	1	967.707	175.632	.000
SP	24.682	1	24.682	4.480	.050
WP	265.533	3	88.511	16.064	.000
SP * WP	29.931	3	9.977	1.811	.186
Error	88.157	16	5.510		
Total	1376.010	24			
Corrected Total	408.303	23			

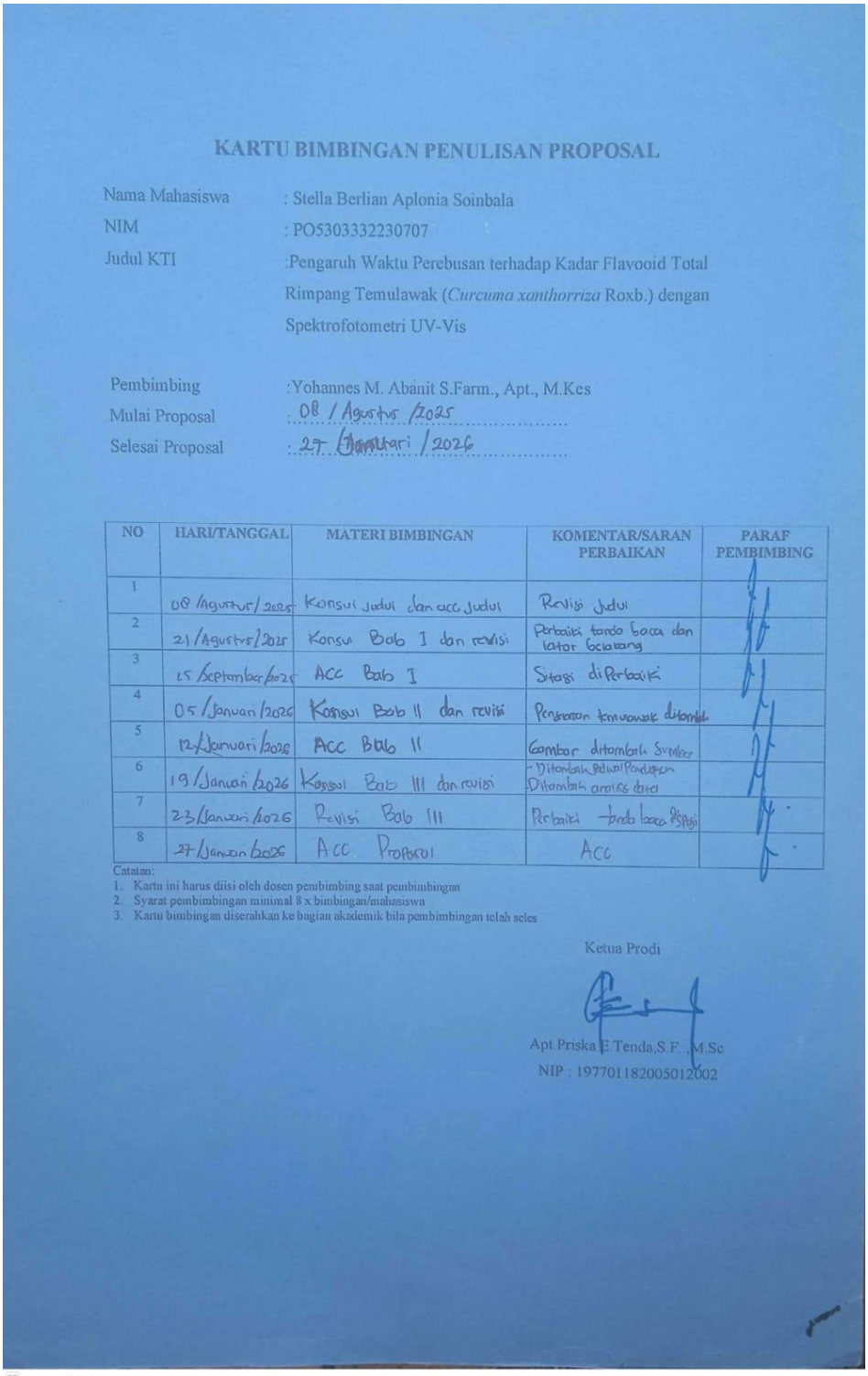
5. Hasil uji lanjut (*Post hoc Bonferroni*)

Pairwise Comparisons

Dependent Variable: Kadar Flavonoid Total (mg QE/ 100mL)

(I) Waktu Perebusan Rimpang Temulawak (menit)	(J) Waktu Perebusan Rimpang Temulawak (menit)	Mean Difference (I-J)	Std. Error	Sig.[b]	95% Confidence Interval for Difference[b]	
					Lower Bound	Upper Bound
15	20	-1.108	1.355	1.000	-5.185	2.969
	25	-8.617*	1.355	.000	-12.694	-4.540
	30	-3.878	1.355	.068	-7.955	.199
20	15	1.108	1.355	1.000	-2.969	5.185
	25	-7.509*	1.355	.000	-11.586	-3.432
	30	-2.770	1.355	.347	-6.847	1.307
25	15	8.617*	1.355	.000	4.540	12.694
	20	7.509*	1.355	.000	3.432	11.586
	30	4.739*	1.355	.018	.662	8.816
30	15	3.878	1.355	.068	-.199	7.955
	20	2.770	1.355	.347	-1.307	6.847
	25	-4.739*	1.355	.018	-8.816	-.662

Lampiran 16. Kartu Bimbingan



KARTU BIMBINGAN PENULISAN PROPOSAL

Nama Mahasiswa : Stella Berlian Aplonia Soinbala
NIM : PO5303332230707
Judul KTI :Pengaruh Waktu Perebusan terhadap Kadar Flavooid Total Rimpang Temulawak (*Curcuma xanthorriza* Roxb.) dengan Spektrofotometri UV-Vis

Pembimbing :Yohannes M. Abanit S.Farm., Apt., M.Kes
Mulai Proposal : 08 / Agustus /2025
Selesai Proposal : 27 Januari /2026

NO	HARI/TANGGAL	MATERI BIMBINGAN	KOMENTAR/SARAN PERBAIKAN	PARAF PEMBIMBING
1	08 /Agustus/ 2025	Konsul judul dan acc judul	Revisi Judul	
2	21/Agustus/2025	Konsul Bab I dan revisi	Perbaiki tanda baca dan latar belakang	
3	15/September/2025	ACC Bab I	Sitasi diPerbaiki	
4	05/Januari/2026	Konsul Bab II dan revisi	Penulisan tumbuhan ditambah	
5	12/Januari/2026	ACC Bab II	Gambar ditambah Sumber	
6	19/Januari/2026	Konsul Bab III dan revisi	Ditambah Jadwal Penelitian Ditambah analisis data	
7	23/Januari/2026	Revisi Bab III	Perbaiki tanda baca dispasi	
8	27/Januari/2026	ACC Proposal	ACC	

Catatan:
1. Kartu ini harus diisi oleh dosen pembimbing saat pembimbingan
2. Syarat pembimbingan minimal 8 x bimbingan/mahasiswa
3. Kartu bimbingan diserahkan ke bagian akademik bila pembimbingan telah selesai

Ketua Prodi

Apt.Priska E.Tenda,S.F.,M.Sc
NIP : 197701182005012002

KARTU BIMBINGAN PENULISAN KARYA TULIS ILMIAH (KTI)

Nama Mahasiswa : Stella Berlian Aplonia Soinbala

NIM : PO5303332230707

Judul KTI : PENGARUH WAKTU DAN SUHU PEREBUSAN TERHADAP KADAR FLAVONOID TOTAL RIMPANG TEMULAWAK (*Curcuma xanthorrhiza* Roxb.) DENGAN SPEKTROFOTOMETRI UV-VIS

Pembimbing : Yohannes M.. Abanit S.Farm., Apt., M.Kes

Mulai KTI : 4 Mei 2026

Selesai KTI : 29 Juni 2026

NO	HARI/TANGGAL	MATERI BIMBINGAN	KOMENTAR/SARAN PERBAIKAN	PARAF PEMBIMBING
1	~~Jumat~~ Senin, 4 Mei 26	Konsultasi mengenai replikasi Perebusan dan lokasi Pengambilan Sampel	Dibuat replikasi sebanyak tiga kali	
2	Kamis, 04 Juni 26	Konsultasi hasil Perebusan	Kurang volume pelarut	
3	Selasa 19 Mei 26	Konsultasi Pelarut & Pengukuran Spektro	Mengganti Pelarut.	
4	Senin 15 Juni 26	Konsultasi hasil Pengukuran Spektrofotometri	Belum masuk range, sehingga dibuat ulang Sampel	
5	Rabu 17 Juni 26	Konsultasi hasil Pengukuran Spektrofotometri	Masih dibawah range, Shg ditambah volume Pemipetan.	
6	Senin 22 Juni 26	Konsultasi hasil Perhitungan	Dilanjutkan ke hasil dan Pembahasan	
7	Rabu 24 Juni 26	Konsultasi hasil Pembahasan	Perbaikan dan replikasi	
8	~~Jumat~~ Senin 29 Juni	Konsultasi PPt	ACC KTI	

Catatan:
1. Kartu ini harus diisi oleh dosen pembimbing saat pembimbingan
2. Syarat pembimbingan minimal 8 x bimbingan/mahasiswa
3. Kartu bimbingan diserahkan ke bagian akademik bila pembimbingan telah selesai

Ketua Prodi

Apt.Priska E.Tenda,S.F. ,M.Sc

Lampiran 17. Surat Izin Penenlitian

Kementerian Kesehatan
Direktorat Jenderal
Sumber Daya Manusia Kesehatan
Politeknik Kesehatan Kupang

NOTA DINAS
Nomor : PP.06.02/F.XXIX.22/044 /2026

Yth. : Direktur Poltekkes Kemenkes Kupang
Dari : Ketua Prodi Farmasi
Hal : Izin Penelitian Mahasiswa
Tanggal : 10 Februari 2026

Dalam rangka penyusunan Karya Tulis Ilmiah bagi Mahasiswa Poltekkes Kemenkes Kupang Tahun Akademik 2025/2026, maka dengan ini kami kirimkan nama mahasiswa yang melakukan penelitian di Prodi D-III Farmasi. Terlampir

Demikian permohonan kami, atas perhatian dan kerja samanya diucapkan terima kasih.

Priska E. Tenda, S.F., Apt., M.Sc.

Stella Berlian Aplonia Soinbala	PO5303332230707	Farmasi	Pengaruh Waktu Perebusan Terhadap Kadar Flavonoid Total Rimpang Temulawak (*Curcuma Xanthorriza Roxb.*) dengan Spektrofotometri UV-Vis	Lab. Prodi Farmasi

Lampiran 18.Surat Bebas Plagiat

Kementerian Kesehatan
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Jalan Piet A. Tallo, Liliba, Oebobo,
Kupang, Nusa Tenggara Timur 85111
(0380) 8800256
https://poltekkeskupang.ac.id

PERPUSTAKAAN TERPADU

https://perpus-terpadu.poltekkeskupang.ac.id/ ; e-mail: perpustakaanterpadu61@gmail.com

SURAT KETERANGAN HASIL CEK PLAGIASI

Dengan ini menerangkan bahwa

Nama	: Stella Berlian Aplonia Soinbala
Nomor Induk Mahasiswa	: PO5303332230707
Dosen Pembimbing	: Yohannes Mau Abanit, S.Farm., Apt., M.Kes
Penguji	: Putra J. P Tjitda, S.Si., M.Sc
Jurusan	: D-III FARMASI
Judul Karya Ilmiah	: Pengaruh Waktu dan Suhu Perebusan terhadap Kadar Flavonoid Total Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb.) dengan Spektrofotometri UV-Vis

Laporan Tugas Akhir yang bersangkutan di atas telah melalui proses cek plagiasi menggunakan Strike Plagiarism dengan hasil kemiripan (similarity) sebesar 26% Demikian surat keterangan ini dibuat agar dapat dipergunakan sebagaimana mestinya.

Kupang, 3 September 2026
Admin Strike Plagiarism

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