LAMPIRAN

LAMPIRAN 01. Rendemen Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) Metode Maserasi.

1) Berat sampel kulit jeruk yang digunakan sebanyak 250g.
2) Berat botol sampel 7.908gr.

Tabel 1. Berat Minyak Atsiri Kulit Jeruk Keprok

Pengulangan	Berat Minyak Atsiri + Botol (gr)	Berat Minyak Atsiri (gr)
1	11.593	3.685
2	12.448	4.540
3	11.955	4.047

Perhitungan Rendemen Minyak Atsiri Kulit Jeruk Keprok :

1) Pengulangan 1

$$\% \text{ Rendemen} = \frac{Berat\ Minyak\ Atsiri}{Berat\ Sampel} \times 100\%$$
$$= \frac{3.685}{250} \times 100\%$$
$$= 1.474\%$$

2) Pengulangan 2

$$\% \text{ Rendemen} = \frac{Berat\ Minyak\ Atsiri}{Berat\ Sampel} \times 100\%$$
$$= \frac{4.540}{250} \times 100\%$$
$$= 1.816\%$$

3) Pengulangan 3

$$\% \text{ Rendeman} = \frac{Berat\ Minyak\ Atsiri}{Berat\ Sampel} \times 100\%$$
$$= \frac{4.047}{250} \times 100\%$$
$$= 1.619\%$$

LAMPIRAN 02. Rendemen Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) Metode Distilasi Uap Air.

1) Berat sampel kulit jeruk yang digunakan sebanyak 250g.
2) Berat botol sampel 7.908gr.

Tabel 2. Berat Minyak Atsiri Kulit Jeruk Keprok

Pengulangan	Berat Minyak Atsiri + Botol (gr)	Berat Minyak Atsiri (gr)
1	10.723	2.815
2	10.793	2.885
3	10.838	2.930

Perhitungan Nilai Rendemen Minyak Atsiri Kulit Jeruk Keprok :

1) Pengulangan 1

$$\% \text{ Rendemen} = \frac{Berat\ Minyak\ Atsiri}{Berat\ Sampel} \times 100\%$$

$$= \frac{2.815}{250} \times 100\%$$

$$= 1.126\%$$

2) Pengulangan 2

$$\% \text{ Rendemen} = \frac{Berat\ Minyak\ Atsiri}{Berat\ Sampel} \times 100\%$$

$$= \frac{2.885}{250} \times 100\%$$

$$= 1.154\%$$

3) Pengulangan 3

$$\% \text{ Rendemen} = \frac{Berat\ Minyak\ Atsiri}{Berat\ Sampel} \times 100\%$$

$$= \frac{2.930}{250} \times 100\%$$

$$= 1.172\%$$

LAMPIRAN 03. Analisisi t-Test Rendemen Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) menggunakan Metode Distilasi Uap Air dan Maserasi.

Uji Normalitas Minyak Atsiri

Tests of Normality						
	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Maserasi	0.207	3	.	0.992	3	0.833
Distilasi	0.224	3	.	0.984	3	0.762

Normalitas dari rendemen minyak atsiri kulit jeruk keprok (*Citrus reticulata*) yaitu untuk maserasi 0.833 > 0.05 dan distilasi uap air 0.762 > 0.05.

Uji Homogenitas Minyak Atsiri

Test of Homogeneity of Variances			
Reticulata EO			
Levene Statistic	df1	df2	Sig.
3.966	1	4	0.117

Homogenitas dari rendemen minyak atsiri kulit jeruk keprok (*Citrus reticulata*) yaitu 0.117 > 0.05.

Independent Samples Test										
		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Reticulata EO	Equal variances assumed	3.966	0.117	4.856	4	0.008	0.485667	0.100006	0.208005	0.763328
	Equal variances not assumed			4.856	2.073	0.037	0.485667	0.100006	0.069559	0.901774

Uji t-Test Minyak Atsiri

1. Berdasarkan hasil uji t-Test diatas dengan menggunakan SPSS di hasilkan bahwa taraf signifikan 2-tailed yaitu 0.008 dimana < 0.05 sehingga H_0 ditolak dan H_a diterima
2. Berdasarkan hasil uji t-Test diatas dengan menggunakan SPSS di hasilkan yaitu 4.856 > 2.776 yang dimana t hitung lebih besar dari t tabel maka H_0 ditolak dan H_a diterima.

LAMPIRAN 04. Perhitungan Pembuatan Larutan Uji Antioksidan.

1. Larutan DPPH 40 ppm (0.1 mM)

   DPPH ditimbang sebanyak :

   0.1 mM = $\frac{mg}{Mr} \times \frac{1000}{v}$

   0.1 mM = $\frac{x}{394{,}32} \times \frac{1000}{25}$

   x = 1 mg

   Jadi, 1 mg DPPH ditimbang dan dilarutkan dengan pelarut metanol pro analisa 95% sebanyak 25 mL.

2. Larutan Induk Asam Askorbat

   $\frac{1\ mg}{0{,}01\ L} = \frac{1000\ \mu g}{10\ mL} = 100\ \frac{\mu g}{mL}$ = 100 ppm

3. Larutan Pembanding Asam Askorbat (1, 2, 4, 8 dan 10 ppm)

   - Konsentrasi 1 ppm

     $M_1 \times V_1 = M_2 \times V_2$

     100 ppm × V_1 = 1 ppm × 5 mL

     V_1 = 0,05 mL atau 50 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

   - Konsentrasi 2 ppm

     $M_1 \times V_1 = M_2 \times V_2$

     100 ppm × V_1 = 2 ppm × 5 mL

     V_1 = 0,1 mL atau 100 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

   - Konsentrasi 4 ppm

     $M_1 \times V_1 = M_2 \times V_2$

     100 ppm × V_1 = 4 ppm × 5 mL

     V_1 = 0,2 mL atau 200 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

   - Konsentrasi 8 ppm

$M_1 \times V_1 = M_2 \times V_2$

100 ppm × V_1 = 8 ppm × 5 mL

V_1 = 0,40 mL atau 400 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

- Konsentrasi 10 ppm

  $M_1 \times V_1 = M_2 \times V_2$

  100 ppm × V_1 = 10 ppm × 5 mL

  V_1 = 0,5 mL atau 500 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

4. Larutan Induk Minyak Atsiri Kulit Jeruk Keprok Masing – Masing Metode

   $\frac{10\ mg}{0{,}01\ L} = \frac{10.000\ \mu g}{10\ mL} = 1000\ \frac{\mu g}{mL}$ = 1000 ppm

5. Larutan Uji Minyak Atsiri Kulit Jeruk Keprok Masing – Masing Metode (5, 25, 50, 80 Dan 125 Ppm)

   1) Konsentrasi 5 ppm

      $M_1 \times V_1 = M_2 \times V_2$

      1000 ppm × V_1 = 5 ppm × 5 mL

      V_1 = 0,025 mL atau 25 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

   2) Konsentrasi 25 ppm

      $M_1 \times V_1 = M_2 \times V_2$

      1000 ppm × V_1 = 25 ppm × 5 mL

      V_1 = 0,125 mL atau 125 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

   3) Konsentrasi 50 ppm

      $M_1 \times V_1 = M_2 \times V_2$

      1000 ppm × V_1 = 50 ppm × 5 mL

      V_1 = 0,25 mL atau 250 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

   4) Konsentrasi 80 ppm

$M_1 \times V_1 = M_2 \times V_2$

1000 ppm $\times$ V_1 = 80 ppm $\times$ 5 mL

V_1 = 0,40 mL atau 400 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

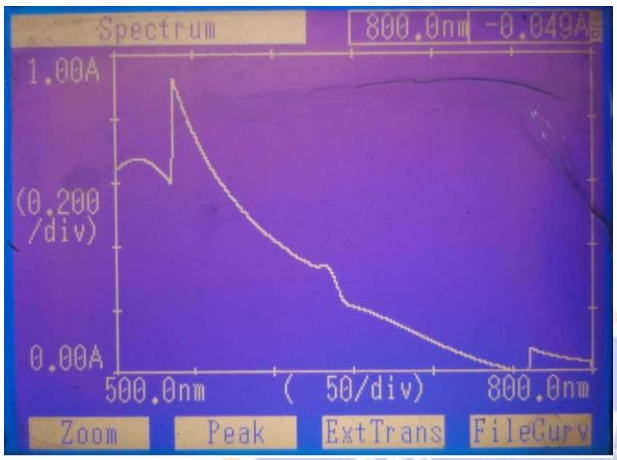
5) Konsentrasi 125 ppm

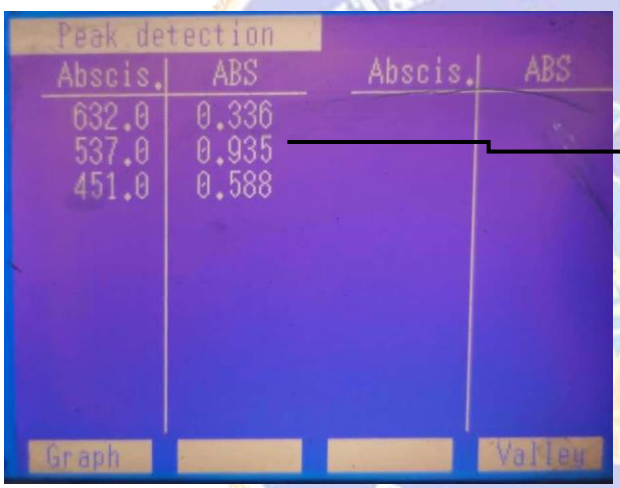
$M_1 \times V_1 = M_2 \times V_2$

1000 ppm $\times$ V_1 = 125 ppm $\times$ 5 mL

V_1 = 0,625 mL atau 625 µL (jumlah yang dipipet dari larutan induk 1000 ppm)

LAMPIRAN 05. Penentuan Panjang Gelombang Maksimum, (λ_{mak}) Uji Aktivitas Antioksidan dengan Instrumen Spektrofotometri UV-Vis *Single beam.*





Panjang Gelombang Maksimum yang digunakan.

LAMPIRAN 06. Penentuan Nilai %Inhibisi dan IC_{50}.

1. Nilai absorbansi metode distilasi uap air.

   Nilai absorbansi blanko = 1,070 nm

   $$\text{Inhibisi} = \frac{A\ blanko - A\ sampel}{A\ blanko} \times 100\%$$

   Tabel 3. Nilai % Inhibisis dan IC_{50} Minyak Atsiri Kulit Jeruk Keprok Metode Distilasi Uap Air

Konsentrasi (ppm)	Rata- Rata Absorbansi (nm)	Inhibisi (%)	Nilai IC_{50}
5	0.743	30.56	y = 0,3225x + 29,114 IC_{50}→ 50= 0,3225x + 29,114 50 - 29,5114= 0,3225x 20.886= 0,3225 x= $\frac{20.886}{0.3225}$ x= 64.763(kuat)
25	0.668	37.57	
50	0.586	45.23	
80	0.487	54.49	
125	0.325	69.63	

2. Nilai absorbansi metode maserasi.

   Nilai absorbansi blanko = 0,758nm

   $$\text{Inhibisi} = \frac{A\ blanko - A\ sampel}{A\ blanko} \times 100\%$$

   Tabel 4. Nilai % Inhibisis dan IC_{50} Minyak Atsiri Kulit Jeruk Keprok Metode Maserasi

Konsentrasi (ppm)	Rata- Rata Absorbansi (nm)	Inhibisi (%)	Nilai IC_{50}
5	0.698	7.92	y = 0.3654x + 1.5466 IC_{50}→ 50= 0.3654x + 1.5466 50 - 1.5466= 0.3654x 48.453 = 0.3654x x= $\frac{48.453}{0,3654}$ x= 132.603(sedang)
25	0.678	10.55	
50	0.638	15.83	
80	0.564	25.59	
125	0.364	51.98	

3. Nilai IC_{50} Asam Askorbat

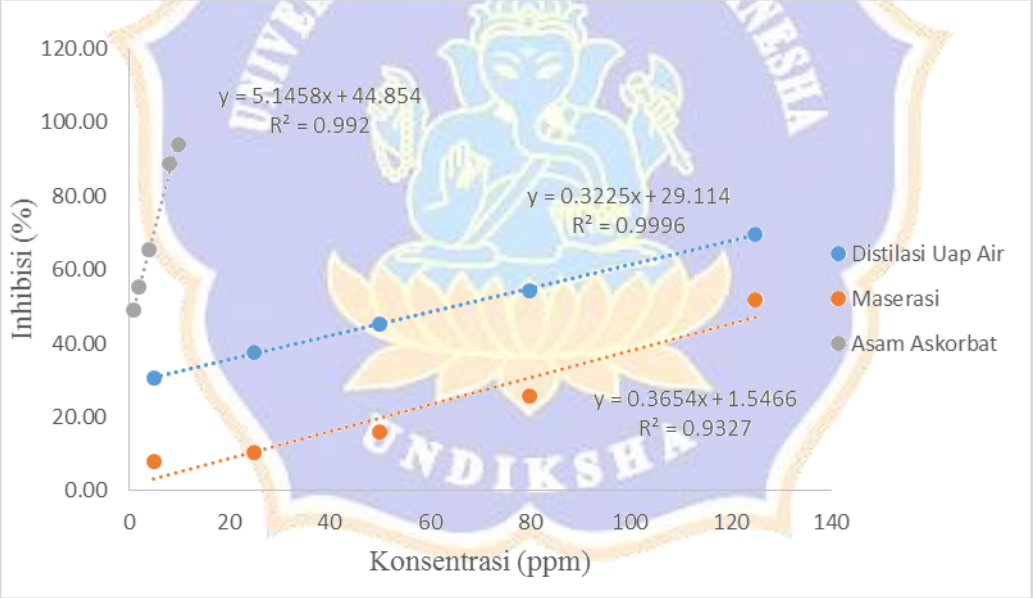
Nilai absorbansi blanko = 0,240 nm

$$\text{Inhibisi} = \frac{A\ blanko - A\ sampel}{A\ blanko} \times 100\%$$

Tabel 5. Nilai % Inhibisis dan IC_{50} Asam Askorbat

Konsentrasi (ppm)	Rata- Rata Absorbansi (nm)	Inhibisi (%)	Nilai IC_{50}
1	0,122	49,17	y = 5,1458x + 44,854 IC_{50}→ 50= 5,1458x + 44,854 50 - 44,854= 5,1458x 5,146 = 5,1458x x= $\frac{5,146}{5,1458}$ x= 1,000 (sangat kuat)
2	0,107	55,42	
4	0,083	65,42	
8	0,027	88,75	
10	0,014	94,17	

Grafik Regresi Linier Uji Antioksidan pada Minyak Atsiri Kulit Jeruk Keprok Metode Distilasi Uap air dan Maserasi serta Asam Askorbat.



LAMPIRAN 07. Analisis Uji Data SPSS Aktivitas Antioksidan Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*).

1.Uji Normalitas Aktivitas Antioksidan Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*)

Tests of Normality						
	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Maserasi	.243	5	0.200*	.847	5	0.186
Distilasi	.159	5	0.200*	.972	5	0.886

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

a. Lilliefors Significance Correction

Normalitas dari aktivitas antioksidan minyak atsiri kulit jeruk keprok (*Citrus reticulata*) yaitu untuk distilasi uap air 0.886> 0.05 dan maserasi 0.186 > 0.05.

2. Uji Homogenitas Aktivitas Antioksidan Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*).

Test of Homogeneity of Variances			
Antioksidan *C.reticulata*			
Levene Statistic	df1	df2	Sig.
.065	1	8	0.805

Homogenitas dari aktivitas antioksidan minyak atsiri kulit jeruk keprok (*Citrus reticulata*) yaitu 0.805> 0.05

3. Uji t-Test Aktivitas Antioksidan Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*)

Independent Samples Test										
		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Antioksidan C.reticulata	Equal variances assumed	0.065	0.805	-2.391	8	0.044	-25.12200	10.50649	-49.35000	-0.89400
	Equal variances not assumed			-2.391	7.805	0.045	-25.12200	10.50649	-49.45585	-.78815

1. Berdasarkan hasil uji t-Test diatas dengan menggunakan SPSS di hasilkan bahwa taraf signifikan 2-tailed yaitu 0.044 dimana < 0.05 sehingga H_0 ditolak dan H_a diterima.
2. Berdasarkan hasil uji t-Test diatas dengan menggunakan SPSS di hasilkan yaitu 2.391 > 2.306 yang dimana t hitung lebih besar dari t tabel maka H_0 ditolak dan H_a diterima.

LAMPIRAN 08. Perhitungan Uji Aktivitas Antibakteri.

1. Pembuataan Nutrien agar sebagai media miring dalam peremajaan bakteri
   Media peremajaan bakteri dibuat sebanyak 200 mL dengan konsentrasi yang setara dengan 20 gram/1000 mL atau 2%.

$$2\% = \frac{b}{v} \times 100\%$$

$$0{,}02 = \frac{b}{200} \times 1$$

2. Larutan standar Mc.Farland 0,5

a. Pembuatan H_2SO_4 1% sebanyak 10 mL, dengan melakukan pengenceran konsentrasi H_2SO_4 100%

$$M_1 \times V_1 = M_2 \times V_2$$

$$100\% \times V_1 = 1\% \times 10 \text{ mL}$$

$$V_1 = 0{,}1 \text{ mL}$$

b. Pembuatan $BaCl_2$ 1,175% sebanyak 1 mL

$$1{,}175\% = \frac{b}{v} \times 100\%$$

$$0{,}01175 = \frac{b}{1} \times 1$$

$$b = 0{,}01175 \text{ gram}$$

Pembuatan larutan standar Mc.Farland 0,5 dengan mencampurkan sebanyak 0,05 mL $BaCl_2$ 1,175% dengan 9,95 mL H_2SO_4 1% sehingga menghasilkan larutan yang keruh.

3. Perhitungan minyak atsiri jeruk keprok (Citrus reticulata) metode distilasi uap air dan maserasi, dalam penentuan KHM.

a. Konsentrasi 5%

$$5\% = \frac{v}{v} \times 100\%$$

$$0{,}05 = \frac{v}{1{,}5 \text{ mL}} \times 1$$

$$v = 0{,}075 \text{ mL } (75 \text{ µL})$$

b. Konsentrasi 10%

$$10\% = \frac{v}{v} \times 100\%$$

$$0{,}1 = \frac{v}{1{,}5 \text{ mL}} \times 1$$

$$v = 0{,}15 \text{ mL } (150 \text{ µL})$$

c. Konsentrasi 15%

$$15\% = \frac{v}{v} \times 100\%$$

$$0{,}15 = \frac{v}{1{,}5\ mL} \times 1$$

v = 0,225 mL (225 µL)

d. Konsentrasi 20%

$$20\% = \frac{v}{v} \times 100\%$$

$$0{,}2 = \frac{v}{1{,}5\ mL} \times 1$$

v = 0,3 mL (300 µL)

e. Konsentrasi 25%

$$25\% = \frac{v}{v} \times 100\%$$

$$0{,}25 = \frac{v}{1{,}5\ mL} \times 1$$

v = 0,375 mL (375 µL)

f. Konsentrasi 30%

$$30\% = \frac{v}{v} \times 100\%$$

$$0{,}3 = \frac{v}{1{,}5\ mL} \times 1$$

v = 0,45 mL (450 µL)

4. Perhitungan minyak atsiri jeruk keprok (Citrus reticulata) metode distilasi uap air dan maserasi, dalam konsentrasi zona hambat

a. Konsentrasi 25%

$$25\% = \frac{v}{v} \times 100\%$$

$$0{,}25 = \frac{v}{0{,}05\ mL} \times 1$$

v = 0,125 mL (125 µL)

b. Konsentrasi 50%

$$50\% = \frac{v}{v} \times 100\%$$

$$0{,}50 = \frac{v}{0{,}05mL} \times 1$$

v = 0,25 mL (250 µL)

c. Konsentrasi 75%

$$75\% = \frac{v}{v} \times 100\%$$

$$0{,}75 = \frac{v}{0{,}05mL} \times 1$$

v = 0,375 mL (375 µL)

d. Konsentrasi 100%

$$100\% = \frac{v}{v} \times 100\%$$

$$1 = \frac{v}{0{,}05mL} \times 1$$

v = 0,5 mL (500 µL)

5. Zona hambat aktivitas antibakteri minyak atsiri jeruk keprok (Citrus reticulata) metode distilasi uap air dan maserasi pada bakteri *S. aureus* dan *E. coli*.

Tabel 6. Zona hambat minyak minyak atsiri jeruk keprok (Citrus reticulata) metode distilasi uap air dan maserasi pada bakteri *S. aureus*

No	Jenis Minyak Atsiri	Konsentrasi Minyak Atsiri	Sisi Vertikal			Sisi Horizontal			Diamater Zona Hambat			Rata-rata Zona Hambat
			I	II	III	I	II	III	I	II	III	
1	Distilasi Uap Air	25%	9	10	8	10	9	9	9.5	9.5	8.5	9.17
		50%	10	11	8	10	10	11	10	10.5	9.5	10
		75%	12	11	10	11	11	11	11.5	11	10.5	11
		100%	13	13	13	13	12	13	13	12.5	13	12.83
2	Maserasi	25%	6	6	6	6	6	6	6	6	6	6
		50%	7	7	7	7	6	7	7	6.5	7	6.83
		75%	8	7	8	7	7	7	7.5	7	7.5	7.33
		100%	10	9	9	9	9	8	9.5	9	8.5	9
3	Kontrol Negatif		6	6	6	6	6	6	6	6	6	6

Tabel 7. Zona hambat minyak minyak atsiri jeruk keprok (Citrus reticulata) metode distilasi uap air dan maserasi pada bakteri *E.coli*

No	Jenis Minyak Atsiri	Konsentrasi Minyak Atsiri	Sisi Vertikal			Sisi Horizontal			Diamater Zona Hambat			Rata-rata Zona Hambat
			I	II	III	I	II	III	I	II	III	
1	Distilasi Uap Air	25%	9	9	8	9	10	9	9	9.5	8.5	9
		50%	12	12	10	11	11	11	11.5	11.5	10.5	11.17
		75%	12	12	11	13	12	12	12.5	12	11.5	12
		100%	13	14	11	15	13	15	14	13.5	13	13.5
2	Maserasi	25%	7	7	7	7	7	6	7	7	6.5	6.83
		50%	7	9	7	8	8	8	7.5	8.5	7.5	7.83
		75%	9	9	8	9	8	8	9	8.5	8	8.5
		100%	13	11	12	13	13	11	13	12	11.5	12.17
3	Kontrol Negatif		6	6	6	6	6	6	6	6	6	6

LAMPIRAN 09. Analisis Uji Data SPSS Aktivitas Antibakteri Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) pada Bakteri *S. aureus* dan *E. coli*

1. Aktivitas Antibakteri Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) pada bakteri *S. aureus*

a. Uji Normalitas Aktivitas Antibakteri Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*)

Tests of Normality						
	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Distilasi	0.198	4	.	0.986	4	0.938
Maserasi	0.307	4	.	0.879	4	0.335

a. Lilliefors Significance Correction

Normalitas dari aktivitas antibakteri minyak atsiri kulit jeruk keprok (*Citrus reticulata*) pada bakteri *S.aureus* yaitu untuk distilasi uap air 0.938 > 0.05 dan maserasi 0.335> 0.05.

b. Uji Homogenitas Aktivitas Antibakteri Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) pada bakteri *S.aureus*

Test of Homogeneity of Variances			
Aktivitas Antibakteri *S.aureus*			
Levene Statistic	df1	df2	Sig.
0.158	1	6	0.705

Homogenitas dari aktivitas antibakteri minyak atsiri kulit jeruk keprok (*Citrus reticulata*) pada bakteri S.aureus yaitu 0.705> 0.05

c. Uji t-Test Aktivitas Antibakteri Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) pada bakteri *S.aureus*

Independent Samples Test										
		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Aktivitas Antibakteri S.aureus	Equal variances assumed	0.158	0.705	1.728	6	0.135	2.58500	1.49572	-1.07490	6.24490
	Equal variances not assumed			1.728	5.743	0.137	2.58500	1.49572	-1.11502	6.28502

Berdasarkan hasil uji t-Test diatas dengan menggunakan SPSS di hasilkan bahwa taraf signifikan 2-tailed yaitu 0.135 > 0,05 sehingga H_0 diterima dan H_a ditolak.

2. Aktivitas Antibakteri Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) pada bakteri *E. coli*

a. Uji Normalitas Aktivitas Antibakteri Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) pada bakteri *E. coli*

Tests of Normality						
	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Distilasi	0.187	4	.	0.966	4	0.814
Maserasi	0.237	4	.	0.958	4	0.768

a. Lilliefors Significance Correction

Normalitas dari aktivitas antibakteri minyak atsiri kulit jeruk keprok (*Citrus reticulata*) pada bakteri *E.coli* yaitu untuk distilasi uap air 0.814 > 0.05 dan maserasi 0.768> 0.05.

b. Uji Homogenitas Aktivitas Antibakteri Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) pada bakteri *E.coli*

Test of Homogeneity of Variances			
Antibakteri E.coli			
Levene Statistic	df1	df2	Sig.
0.269	1	6	0.623

Homogenitas dari aktivitas antibakteri minyak atsiri kulit jeruk keprok (*Citrus reticulata*) pada bakteri *E.coli* yaitu 0.823> 0.05

c. Uji t-Test Aktivitas Antibakteri Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) pada bakteri *E.coli*

Independent Samples Test										
		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Antibakteri E.coli	Equal variances assumed	0.269	0.623	3.425	6	0.014	3.46000	1.01033	.98781	5.93219
	Equal variances not assumed			3.425	5.732	0.015	3.46000	1.01033	.95957	5.96043

Berdasarkan hasil uji t-Test diatas dengan menggunakan SPSS di hasilkan bahwa taraf signifikan 2-tailed yaitu 0.014 < 0,05 sehingga H_0 ditolak dan H_a diterima.

LAMPIRAN 10. Aktivitas Larvasidan Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*) metode Distilasi Uap Air dan Maserasi.

1. Perhitungan Larva Nyamuk *Aedes Aegepty* Minyak Atsiri Kulit Jeruk Keprok Metode Distilasi Upa Air

Tabel 8. Mortalitas Larva Nyamuk *Aedes Aegepty* pada Minyak Atsiri Kulit Jeruk Keprok Dengan Metode Distilasi Uap Air

Jam	Konsentrasi minyak atsiri kulit jeruk keprok metode distilasi uap											
	0 ppm			10 ppm			100 ppm			1000 ppm		
	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	2	1	2	2	1	3	3	4	4
48	0	0	0	3	2	3	4	3	4	7	6	7
72	0	0	0	5	5	5	6	6	6	7	8	8

a. Analisis Probit LC50 minyak atsiri kulit jeruk keprok metode distilasi uap air

Data Information		
		N of Cases
Valid		3
Rejected	Missing	0
	LOG Transform Cannot be Done	0
	Number of Responses > Number of Subjects	0
Control Group		1

Convergence Information		
	Number of Iterations	Optimal Solution Found
PROBIT	8	Yes

Parameter Estimates							
						95% Confidence Interval	
	Parameter	Estimate	Std. Error	Z	Sig.	Lower Bound	Upper Bound
PROBIT[a]	konsentrasi	,360	,169	2,128	,033	,028	,692
	Intercept	-,395	,356	-1,110	,267	-,751	-,039

PROBIT model: PROBIT(p) = Intercept + BX (Covariates X are transformed using the base 10.000 logarithm.)

Chi-Square Tests				
		Chi-Square	df[b]	Sig.
PROBIT	Pearson Goodness-of-Fit Test	,149	1	,700[a]

a. Since the significance level is greater than .050, no heterogeneity factor is used in the calculation of confidence limits.

b. Statistics based on individual cases differ from statistics based on aggregated cases.

Cell Counts and Residuals						
	Number	Log Konsentrasi	Number of Subjects	Observed Responses	Expected Responses	Residual
PROBIT	1	1,000	30	15	14,581	0,419
	2	2,000	30	18	18,826	-0,826
	3	3,000	30	23	22,606	0,394

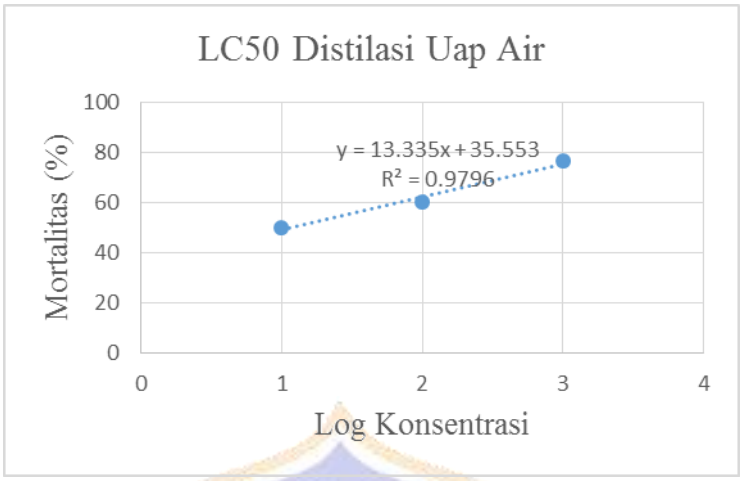
Confidence Limits				
		95% Confidence Limits for konsentrasi		
	Probability	Estimate	Lower Bound	Upper Bound
PROBIT	,010	,000	,000	,015
	,020	,000	,000	,038
	,030	,000	,000	,068
	,040	,000	,000	,106
	,050	,000	,000	,152
	,060	,001	,000	,206
	,070	,001	,000	,270
	,080	,002	,000	,343
	,090	,002	,000	,427
	,100	,003	,000	,523
	,150	,017	,000	1,217
	,200	,058	,000	2,401
	,250	,168	,000	4,342

Confidence Limits			
	95% Confidence Limits for konsentrasi		
Probability	Estimate	Lower Bound	Upper Bound
,300	,438	,000	7,486
,350	1,066	,000	12,619
,400	2,478	,000	21,274
,450	5,603	,000	36,950
,500	12,107	,000	70,100
,550	27,918	,000	172,951
,600	63,129	,082	1271,944
,650	146,714	11,959	605755,840
,700	356,810	62,711	14599542830,000
,750	931,008	155,176	1889596427000000,000
,800	2708,722	330,107	12000167260000000000,000
,850	9405,735	711,597	77915901940000000000000000000,000
,900	45042,919	1749,054	3,107E+36
,910	65754,216	2160,604	3,735E+38
,920	99176,793	2713,418	6,801E+40
,930	155835,172	3479,753	2,083E+43
,940	258138,065	4585,869	1,247E+46
,950	459024,090	6270,616	1,838E+49
,960	902680,028	9037,485	9,722E+52
,970	2072996,776	14129,277	3,683E+57
,980	6259957,183	25509,178	4,507E+63
,990	35732861,910	64380,467	1,783E+73

a. Logarithm base = 10.

b. **Tabel 9**. Perhitungan dan Kurva LC_{50} Minyak Atsiri Kulit Jeruk Keprok Metode Distilasi Uap Air.

No	Konsentrasi (ppm)	Log Konsentrasi	Mortalitas (%)
1	10	1	50
2	100	2	60
3	1000	3	76.67



Regresi linier : y = 13.335x + 35.553

LC_{50}: y = 13.335x + 35.553

50 = 13.335x + 35.553

50 - 35.553 = 13.335x

X = 1,083

Log yang menghasilkan nilai 1,083 adalah 12,107

Nilai LC_{50} minyak atsiri kulit jeruk keprok metode distilasi uap air mampu mematikan 50% larva nyamuk Aedes aegepty pada konsentrasi 12,107 ppm.

c. Korelasi Pearson Minyak Atsiri Kulit Jeruk Keprok Metode Distilasi Uap Air

Correlations

		Jam	Konsentrasi10ppm	Konsentrasi100ppm	Konsentrasi1000ppm
Jam	Pearson Correlation	1	0.988*	0.998**	0.973*
	Sig. (2-Tailed)		0.012	0.002	0.027
	N	8	4	4	4
Konsentrasi10ppm	Pearson Correlation	0.988*	1	0.996**	0.935
	Sig. (2-Tailed)	0.012		0.004	0.065

	N	4	4	4	4
Konsentrasi100ppm	Pearson Correlation	0.998**	0.996**	1	0.961*
	Sig. (2-Tailed)	0.002	0.004		0.039
	N	4	4	4	4
Konsentrasi1000ppm	Pearson Correlation	0.973*	0.935	0.961*	1
	Sig. (2-Tailed)	0.027	0.065	0.039	
	N	4	4	4	4

*. Correlation Is Significant At The 0.05 Level (2-Tailed).

**. Correlation Is Significant At The 0.01 Level (2-Tailed).

2. Perhitungan Larva Nyamuk *Aedes Aegepty* Minyak Atsiri Kulit Jeruk Keprok Metode Maserasi

a. **Tabel 10.** Mortalitas Larva Nyamuk Aedes Aegepty pada Minyak Atsiri Kulit Jeruk Keprok dengan Metode Maserasi

Jam	Konsentrasi minyak atsiri kulit jeruk keprok metode maserasi											
	0 ppm			10 ppm			100 ppm			1000 ppm		
	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	1	1	0	1	2	1	3	3	4
48	0	0	0	2	2	2	3	3	2	5	5	6
72	0	0	0	5	4	4	5	5	5	8	7	6

b. Analisis Probit LC_{50} Minyak Atsiri Kulit Jeruk Keprok Metode Maserasi

Data Information		
5		N of Cases
Valid		3
Rejected	Missing	0
	LOG Transform Cannot be Done	0
	Number of Responses > Number of Subjects	0
Control Group		1

Convergence Information		
	Number of Iterations	Optimal Solution Found
PROBIT	8	Yes

Parameter Estimates							
						95% Confidence Interval	
	Parameter	Estimate	Std. Error	Z	Sig.	Lower Bound	Upper Bound
PROBIT[a]	Konsentrasi	.344	.166	2.071	.038	.018	.669
	Intercept	-.571	.354	-1.610	.107	-.925	-.216

a. PROBIT model: PROBIT(p) = Intercept + BX (Covariates X are transformed using the base 10.000 logarithm.)

Chi-Square Tests				
		Chi-Square	df[b]	Sig.
PROBIT	Pearson Goodness-of-Fit Test	0.398	1	0.528[a]

a. Since the significance level is greater than 0.050, no heterogeneity factor is used in the calculation of confidence limits.
b. Statistics based on individual cases differ from statistics based on aggregated cases.

Cell Counts and Residuals							
	Number	Log Konsentrasi	Number of Subjects	Observed Responses	Expected Responses	Residual	Probability
PROBIT	1	1.000	30	13	12.307	.693	.410
	2	2.000	30	15	16.394	-1.394	.546
	3	3.000	30	21	20.321	.679	.677

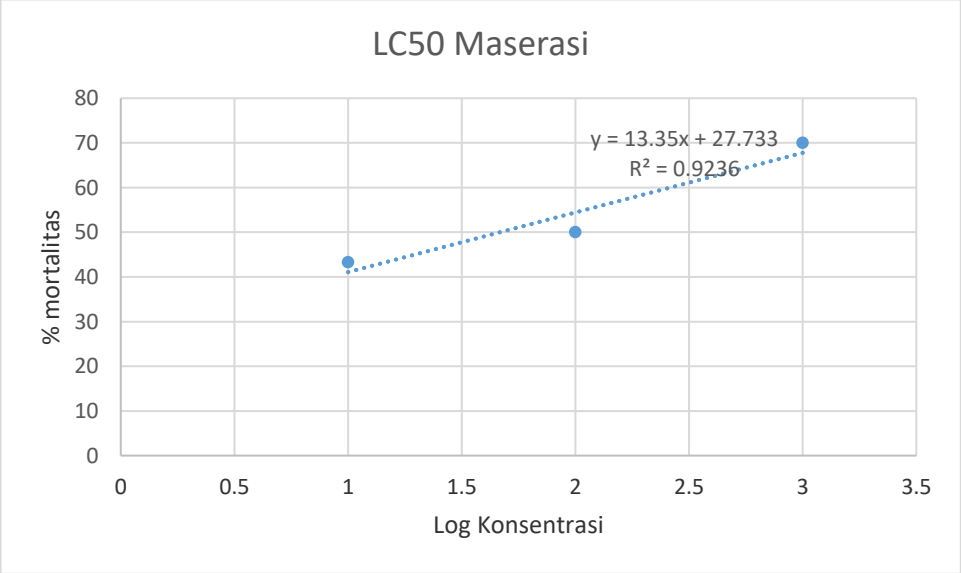
Confidence Limits				
		95% Confidence Limits for Konsentrasi		
	Probability	Estimate	Lower Bound	Upper Bound
PROBIT	.010	.000	.000	.024
	.020	.000	.000	.062
	.030	.000	.000	.114
	.040	.000	.000	.180
	.050	.001	.000	.261

Confidence Limits			
	95% Confidence Limits for Konsentrasi		
Probability	Estimate	Lower Bound	Upper Bound
.060	.001	.000	.358
.070	.002	.000	.473
.080	.004	.000	.608
.090	.006	.000	.764
.100	.009	.000	.944
.150	.044	.000	2.279
.200	.163	.000	4.656
.250	.499	.000	8.741
.300	1.363	.000	15.769
.350	3.461	.000	28.325
.400	8.380	.000	53.139
.450	19.714	.000	116.234
.500	45.751	.000	464.275
.550	106.178	1.086	71703.113
.600	249.782	32.813	30221965550.000
.650	604.729	103.445	211495044500000000.000
.700	1535.463	221.234	542314732000000000000000000.000
.750	4197.115	432.025	624152505600000000000000000000000.000
.800	12860.263	846.647	6.355E+41
.850	47434.101	1775.055	2.098E+52
.900	245078.861	4360.534	3.725E+65
.910	364392.085	5400.048	5.925E+68
.920	560672.655	6804.977	1.783E+72
.930	900492.952	8765.789	1.192E+76
.940	1528601.300	11617.573	2.233E+80
.950	2795105.427	15999.101	1.669E+85
.960	5679846.814	23268.941	8.889E+90
.970	13580250.370	36816.591	9.759E+97
.980	43266540.360	67600.665	2.236E+107
.990	268737096.100	175474.302	1.271E+122

a. Logarithm base = 10.

c. **Tabel 11**. Perhitungan dan Kurva LC_{50} Minyak Atsiri Kulit Jeruk Keprok Metode Maserasi

No	Konsentrasi (ppm)	Log Konsentrasi	Mortalitas (%)
1	10	1	43.3
2	100	2	50
3	1000	3	70



Regresi linier : y = 13.35x + 27.733

LC_{50}: y = 13.35x + 27.733

50 = 13.35x + 27.733

50 - 27.733= 13.35x

X = 1,66

Log yang menghasilkan nilai 1,66 adalah 45,751

Nilai LC_{50} minyak atsiri kulit jeruk keprok metode distilasi uap air mampu mematikan 50% larva nyamuk Aedes aegepty pada konsentrasi 45,751 ppm.

d. Korelasi Pearson Minyak Atsiri Kulit Jeruk Keprok Metode Maserasi

Correlations					
		Jam	Konsentrasi10ppm	Konsentrasi100ppm	Konsentrasi1000ppm
Jam	Pearson Correlation	1	0.968*	0.989*	0.986*
	Sig. (2-Tailed)		0.032	0.011	0.014
	N	8	4	4	4
Konsentrasi10ppm	Pearson Correlation	0.968*	1	0.992**	0.915
	Sig. (2-Tailed)	0.032		0.008	0.085
	N	4	4	4	4
Konsentrasi100ppm	Pearson Correlation	0.989*	0.992**	1	0.956*
	Sig. (2-Tailed)	0.011	0.008		0.044
	N	4	4	4	4
Konsentrasi1000ppm	Pearson Correlation	0.986*	0.915	0.956*	1
	Sig. (2-Tailed)	0.014	0.085	0.044	
	N	4	4	4	4
*. Correlation Is Significant At The 0.05 Level (2-Tailed).					
**. Correlation Is Significant At The 0.01 Level (2-Tailed).					

LAMPIRAN 11. Analisis Uji Data SPSS Aktivitas Larvasida Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*)

a. Uji Normalitas Aktivitas Larvasida Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*)

Tests of Normality						
	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
maserasi	.292	3	.	0.923	3	0.463
distilasi	.232	3	.	0.980	3	0.726

a. Lilliefors Significance Correction

Normalitas dari aktivitas antioksidan minyak atsiri kulit jeruk keprok (*Citrus reticulata*) yaitu untuk maserasi 0.463 > 0.05. dan distilasi uap air 0.726 > 0.05

b. Uji Homogenitas Aktivitas Larvasida Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*).

Test of Homogeneity of Variances			
larvasida citrus reticulata			
Levene Statistic	df1	df2	Sig.
.022	1	4	0.888

Homogenitas dari aktivitas antioksidan minyak atsiri kulit jeruk keprok (*Citrus reticulata*) yaitu 0.888 > 0.05.

c. Uji t-Test Aktivitas Larvasida Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata*)

Independent Samples Test										
		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
larvasida citrus reticulata	Equal variances assumed	.022	0.888	-0.697	4	0.524	-2.33333	3.34996	-11.63431	6.96764
	Equal variances not assumed			-0.697	3.996	0.524	-2.33333	3.34996	-11.63755	6.97088

Berdasarkan hasil uji t-Test diatas dengan menggunakan SPSS di hasilkan bahwa taraf signifikan 2-tailed yaitu 0.524 dimana > 0.05 sehingga H_0 diterima dan H_a ditolak.

LAMPIRAN 12. Penentuan Berat Jenis Minyak Atsiri Kulit Jeruk Keprok Menggunakan Metode Distilasi Uap Dair dan Maserasi.

1. Berat jenis minyak atsiri kulit jeruk keprok metode distilasi uap air.

a. Berat jenis air pada suhu 25ºC = 0.9971 gr/mL

b. Berat piknometer kosong = 7.0178 gram

c. Berat piknometer + air = 16.9898 gram

d. Massa minyak atsiri kulit jeruk keprok + botol = 15.6488 gram

e. Massa air = (Berat piknometer + air)-(Berat piknometer kosong)

= (16.9898 - 7.0178) gram

= 9.972 gram

f. Volume air :

$$\text{Volume air} = \frac{massa\ (gr)}{berat\ jenis\ (\frac{gr}{mL})}$$

$$= \frac{9.972}{0.9971}$$

= 10.001 mL

g. Massa minyak atsiri kulit jeruk keprok:

Massa minyak = (Berat piknometer + minyak)-(Berat piknometer kosong)

=(15.6488 -7.0178) gram

= 8.631 gram

h. Berat jenis minya atsiri kulit jeruk keprok :

$$\text{Berat jenis minyak} = \frac{massa\ (gr)}{volume(mL)}$$

$$= \frac{8.631}{4.98\ 10.001}$$

= 0.863 gr/mL

2. Berat jenis minyak atsiri kulit jeruk keprok metode maserasi.

a. Berat jenis air pada suhu 25ºC = 0.9971 gr/mL

b. Berat piknometer kosong = 12.1400 gram

c. Berat piknometer + air = 26.0750 gram

d. Berat piknometer + minyak atsiri kulit jeruk keprok = 24.41 gram

e. Massa air = (Berat piknometer + air)-(Berat piknometer kosong)

= (26.0750 - 12.1400) gram

= 13.935gram

f. Volume air :

$$\text{Volume air} = \frac{massa\ (gr)}{berat\ jenis\ (\frac{gr}{mL})}$$

$$= \frac{13.935}{0.9971}$$

= 13.98 mL

g. Massa minyak atsiri kulit jeruk keprok:

Massa minyak = (Berat piknometer + minyak)-(Berat piknometer kosong)

=(24.41 -12.1400) gram

= 12.27 gram

h. Berat jenis minya atsiri kulit jeruk keprok :

$$\text{Berat jenis minyak} = \frac{massa\ (gr)}{volume(mL)}$$

$$= \frac{12.27}{13.98}$$

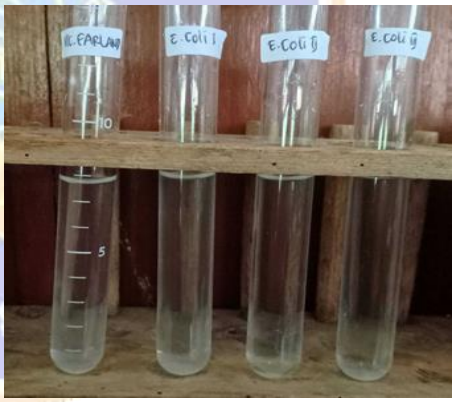
= 0.878 gr/mL

LAMPIRAN 13. Dokumentasi Pengambilan Data.

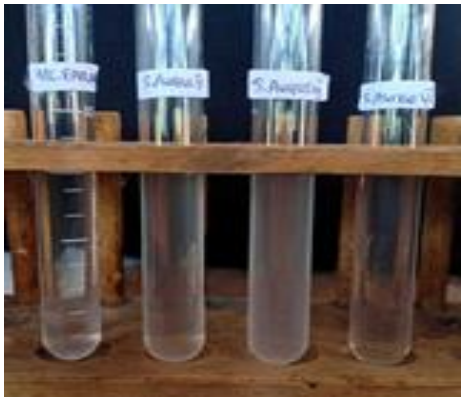
Kulit jeruk keprok ditimbang dengan massa 250g.

Refraktometer.

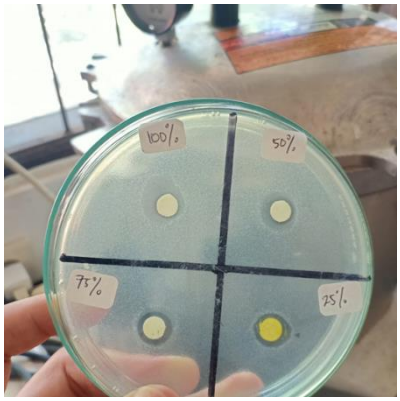
Maserasi kulit jeruk keprok (*Citrus reticulata*).



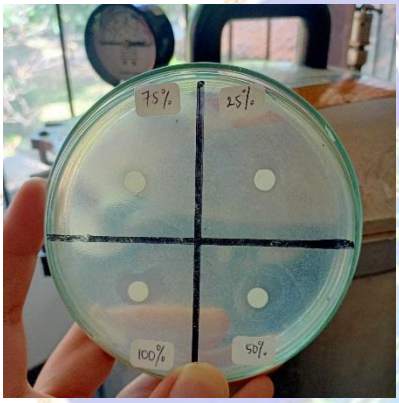
Bakteri *E.coli.*



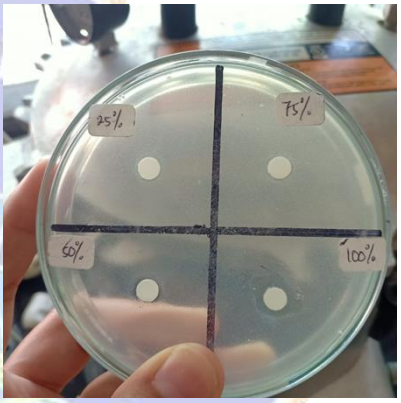
Bakteri *S.aureus.*



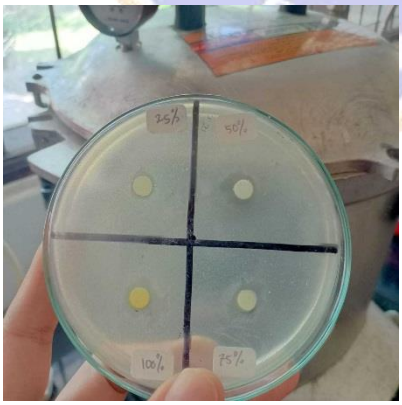
Uji antibakteri minyak atsiri kulit keprok metode maserasi bakteri *S.aureus.*



Uji antibakteri minyak atsiri kulit jeruk keprok metode distilasi bakteri *S.aureus.*

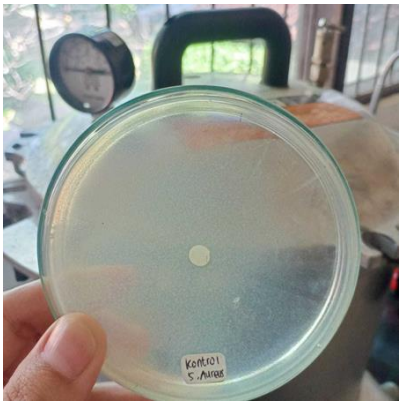


Uji antibakteri minyak atsiri kulit jeruk keprok metode distilasi bakteri *E.coli.*

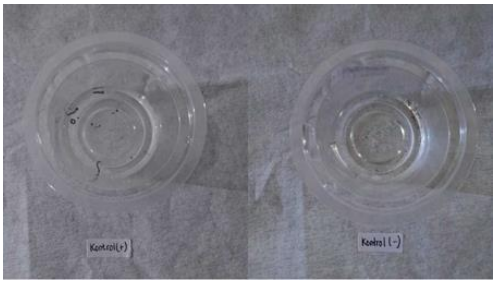


Uji antibakteri minyak atsiri kulit keprok metode maserasi bakteri *E.coli.*

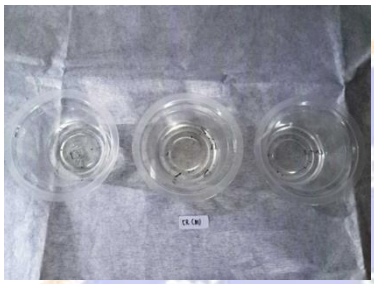
Kontrol *E.coli.*



Kontrol *S.aureus.*



Kontrol uji aktivitas larvasida.



Uji aktivitas larvasida metode isolasi maserasi.

Uji aktivitas larvasida metode isolasi distilasi uap air.

LAMPIRAN 14. Komponen dan Kandungan Kimia Minyak Atsiri Kulit Jeruk Keprok Metode Maserasi

Library Search Report

Data Path : D:\MassHunter\GCMS\2\
Data File : 2020_11_23_C Reticulata_M.D
Acq On : 23 Nov 2020 17:27
Operator : NGR
Sample : Undiksa/Kimia
Misc : Laksmi
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	2.417	0.07	D:\DATABASE\NIST14.L			
			Hexanal	3830	000066-25-1	58
			Hexanal	3833	000066-25-1	50
			2-Oxo-3-methyl-cis-perhydro-1,3-benzoxazine	39452	1000138-84-6	22
2	4.237	0.57	D:\DATABASE\NIST14.L			
			Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)-	16271	002867-05-2	97
			Bicyclo[3.1.0]hex-2-ene, 4-methyl-1-(1-methylethyl)-	16269	028634-89-1	94
			Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)-	16277	002867-05-2	91
3	4.374	1.90	D:\DATABASE\NIST14.L			
			(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	16224	007785-70-8	97
			.alpha.-Pinene	16070	000080-56-8	96
			.alpha.-Pinene	16063	000080-56-8	95
4	5.064	4.28	D:\DATABASE\NIST14.L			
			Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)-	16270	003387-41-5	96
			.beta.-Phellandrene	16088	000555-10-2	91
			Bicyclo[3.1.0]hex-2-ene, 4-methyl-1-(1-methylethyl)-	16276	028634-89-1	91
5	5.335	3.50	D:\DATABASE\NIST14.L			
			.beta.-Myrcene	16066	000123-35-3	94
			.beta.-Myrcene	16064	000123-35-3	90
			.beta.-Myrcene	16061	000123-35-3	80
6	5.539	0.84	D:\DATABASE\NIST14.L			
			Octanal	12689	000124-13-0	91
			Octanal	12691	000124-13-0	91
			Octanal	12692	000124-13-0	87
7	5.835	0.44	D:\DATABASE\NIST14.L			
			Cyclohexene, 1-methyl-4-(1-methylethylidene)-	16230	000586-62-9	97
			1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	16247	000099-86-5	97
			Cyclohexene, 1-methyl-4-(1-methylethylidene)-	16238	000586-62-9	95
8	6.090	16.77	D:\DATABASE\NIST14.L			
			D-Limonene	16046	005989-27-5	98
			Limonene	16031	000138-86-3	94
			D-Limonene	16044	005989-27-5	93
9	6.362	0.49	D:\DATABASE\NIST14.L			
			1,3,6-Octatriene, 3,7-dimethyl-, (Z)-	16175	003338-55-4	98
			.beta.-Ocimene	16062	013877-91-3	97

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Library Search Report

Data Path : D:\MassHunter\GCMS\2\
Data File : 2020_11_23_C Reticulata_M.D
Acq On : 23 Nov 2020 17:27
Operator : NGR
Sample : Undiksa/Kimia
Misc : Laksmi
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			1,3,7-Octatriene, 3,7-dimethyl-	16133	000502-99-8	96
10	6.580	5.59	D:\DATABASE\NIST14.L			
			3-Carene	16028	013466-78-9	94
			(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	16224	007785-70-8	94
			Tricyclo[2.2.1.0(2,6)]heptane, 1,3,3-trimethyl-	16250	000488-97-1	94
11	6.738	0.85	D:\DATABASE\NIST14.L			
			1-Octanol	13936	000111-87-5	90
			Octyl chloroformate	58207	007452-59-7	90
			1-Octanol	13945	000111-87-5	87
12	7.095	1.07	D:\DATABASE\NIST14.L			
			(+)-4-Carene	16052	029050-33-7	98
			Cyclohexene, 1-methyl-4-(1-methylethylidene)-	16238	000586-62-9	97
			Cyclohexene, 1-methyl-4-(1-methylethylidene)-	16237	000586-62-9	97
13	7.269	2.96	D:\DATABASE\NIST14.L			
			Linalool	27447	000078-70-6	97
			Linalool	27451	000078-70-6	94
			Linalool	27452	000078-70-6	90
14	7.936	0.26	D:\DATABASE\NIST14.L			
			Limonene oxide, trans-	25872	004959-35-7	80
			Limonene oxide, trans-	25881	004959-35-7	74
			(+)-(E)-Limonene oxide	25879	006909-30-4	49
15	8.150	0.28	D:\DATABASE\NIST14.L			
			6-Octenal, 3,7-dimethyl-, (R)-	27601	002385-77-5	97
			Citronellal	27479	000106-23-0	96
			Citronellal	27474	000106-23-0	87
16	8.442	0.33	D:\DATABASE\NIST14.L			
			Octanoic acid	21385	000124-07-2	92
			Octanoic acid	21384	000124-07-2	70
			Octanoic acid	21381	000124-07-2	53
17	8.603	0.49	D:\DATABASE\NIST14.L			
			Terpinen-4-ol	27505	000562-74-3	96
			3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-, (R)-	27776	020126-76-5	96
			Terpinen-4-ol	27498	000562-74-3	95
18	8.813	0.86	D:\DATABASE\NIST14.L			
			.alpha.-Terpineol	27528	000098-55-5	94
			Terpineol	27454	1000411-59-6	90
			L-.alpha.-Terpineol	27531	010482-56-1	72
19	8.977	1.50	D:\DATABASE\NIST14.L			
			Decanal	29133	000112-31-2	99

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Library Search Report

Data Path : D:\MassHunter\GCMS\2\
Data File : 2020_11_23_C Reticulata_M.D
Acq On : 23 Nov 2020 17:27
Operator : NGR
Sample : Undiksa/Kimia
Misc : Laksmi
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Decanal	29128	000112-31-2	97
			Decanal	29131	000112-31-2	91
20	9.450	1.48	D:\DATABASE\NIST14.L			
			Benzene, 2-methoxy-4-methyl-1-(1-methylethyl)-	34989	001076-56-8	96
			Benzene, 2-methoxy-4-methyl-1-(1-methylethyl)-	34993	001076-56-8	95
			Benzene, 2-methoxy-4-methyl-1-(1-methylethyl)-	34994	001076-56-8	95
21	9.971	0.49	D:\DATABASE\NIST14.L			
			1-Decanol	30629	000112-30-1	91
			1-Decanol	30614	000112-30-1	91
			5-Dodecene, (E)-	38284	007206-16-8	91
22	10.093	0.17	D:\DATABASE\NIST14.L			
			1-Cyclohexene-1-carboxaldehyde, 4-(1-methylethenyl)-	24589	002111-75-3	96
			1-Cyclohexene-1-carboxaldehyde, 4-(1-methylethenyl)-	24585	002111-75-3	94
			1-Cyclohexene-1-carboxaldehyde, 4-(1-methylethenyl)-	24588	002111-75-3	93
23	10.330	0.75	D:\DATABASE\NIST14.L			
			Thymol	24339	000089-83-8	94
			Phenol, 2-methyl-5-(1-methylethyl)	24486	000499-75-2	93
			3-Methyl-4-isopropylphenol	24408	003228-02-2	90
24	10.483	0.20	D:\DATABASE\NIST14.L			
			Phenol, 2-methyl-5-(1-methylethyl)	24480	000499-75-2	42
			Phenol, 2,3,5,6-tetramethyl-	24432	000527-35-5	42
			Phenol, 2,3,5,6-tetramethyl-	24429	000527-35-5	42
25	10.645	0.24	D:\DATABASE\NIST14.L			
			2,4-Decadienal, (E,E)-	25888	025152-84-5	91
			2,4-Decadienal, (E,E)-	25877	025152-84-5	91
			2,4-Decadienal	25840	002363-88-4	90
26	10.996	0.41	D:\DATABASE\NIST14.L			
			Cyclohexene, 4-ethenyl-4-methyl-3-(1-methylethenyl)-1-(1-methylethyl)-, (3R-trans)-	68824	020307-84-0	99
			Cyclohexene, 4-ethenyl-4-methyl-3-(1-methylethenyl)-1-(1-methylethyl)-, (3R-trans)-	68823	020307-84-0	98
			Cyclohexene, 4-ethenyl-4-methyl-3-(1-methylethenyl)-1-(1-methylethyl)-, (3R-trans)-	68822	020307-84-0	96
27	11.305	0.42	D:\DATABASE\NIST14.L			
			n-Decanoic acid	41223	000334-48-5	98
			n-Decanoic acid	41224	000334-48-5	98
			n-Decanoic acid	41220	000334-48-5	70

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Library Search Report

Data Path : D:\MassHunter\GCMS\2\
Data File : 2020_11_23_C Reticulata_M.D
Acq On : 23 Nov 2020 17:27
Operator : NGR
Sample : Undiksa/Kimia
Misc : Laksmi
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
28	11.884	0.47	D:\DATABASE\NIST14.L			
			Tetradecanal	76509	000124-25-4	98
			13-Methyltetradecanal	89788	075853-51-9	98
			Heptadecanal	115508	1000376-70-0	96
29	12.297	0.40	D:\DATABASE\NIST14.L			
			1,5-Cyclodecadiene, 1,5-dimethyl-8 -(1-methylethylidene)-, (E,E)-	68726	015423-57-1	98
			.gamma.-Elemene	68546	029873-99-2	98
			.gamma.-Elemene	68537	029873-99-2	98
30	12.966	0.48	D:\DATABASE\NIST14.L			
			Germacrene D	68505	023986-74-5	99
			Germacrene D	68507	023986-74-5	96
			.beta.-copaene	68520	1000374-18-9	90
31	13.810	0.81	D:\DATABASE\NIST14.L			
			Dodecanoic acid	64983	000143-07-7	99
			Dodecanoic acid	64985	000143-07-7	99
			Dodecanoic acid	64986	000143-07-7	98
32	14.274	0.31	D:\DATABASE\NIST14.L			
			Pentanoic acid, 2,2,4-trimethyl-3- carboxyisopropyl, isobutyl ester	146127	1000140-77-5	64
			2,2,4-Trimethyl-1,3-pentanediol di isobutyrate	146056	006846-50-0	53
			3-Methoxyhex-1-ene	7606	108811-41-2	46
33	15.445	0.14	D:\DATABASE\NIST14.L			
			2,6,11-Dodecatrienal, 2,6-dimethyl -10-methylene-	81670	060066-88-8	95
			2,6,9,11-Dodecatetraenal, 2,6,10-t rimethyl-	81665	004955-32-2	52
			Butanoic acid, 4-oxo-4-(phenylamin o)-, methyl ester	71359	005430-83-1	45
34	16.056	0.85	D:\DATABASE\NIST14.L			
			Tetradecanoic acid	91419	000544-63-8	97
			Tetradecanoic acid	91415	000544-63-8	97
			Tetradecanoic acid	91420	000544-63-8	97
35	17.760	0.40	D:\DATABASE\NIST14.L			
			Hexadecanoic acid, methyl ester	130813	000112-39-0	99
			Hexadecanoic acid, methyl ester	130820	000112-39-0	99
			Hexadecanoic acid, methyl ester	130822	000112-39-0	98
36	18.125	4.42	D:\DATABASE\NIST14.L			
			n-Hexadecanoic acid	117419	000057-10-3	99
			n-Hexadecanoic acid	117418	000057-10-3	99
			n-Hexadecanoic acid	117417	000057-10-3	98
37	18.418	0.39	D:\DATABASE\NIST14.L			
			cis-Vaccenic acid	142073	000506-17-2	53

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Library Search Report

Data Path : D:\MassHunter\GCMS\2\
Data File : 2020_11_23_C Reticulata_M.D
Acq On : 23 Nov 2020 17:27
Operator : NGR
Sample : Undiksa/Kimia
Misc : Laksmi
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Phenylephrine	37699	000059-42-7	30
			Atomoxetine	116330	083015-26-3	30
38	19.075	0.26	D:\DATABASE\NIST14.L			
			Oleic Acid	142070	000112-80-1	53
			9-Octadecenoic acid (Z)-, methyl ester	155751	000112-62-9	45
			1-Methyl-4-[nitromethyl]-4-piperidinol	43235	116250-49-8	43
39	19.406	0.65	D:\DATABASE\NIST14.L			
			Methyl 10-trans,12-cis-octadecadienoate	153874	1000336-44-2	97
			n-Propyl 9,12-octadecadienoate	180756	1000336-77-8	96
			Methyl 9-cis,11-trans-octadecadienoate	153865	1000336-44-0	96
40	19.776	7.15	D:\DATABASE\NIST14.L			
			9,12-Octadecadienoic acid (Z,Z)-	140139	000060-33-3	99
			9,12-Octadecadienoic acid (Z,Z)-	140138	000060-33-3	99
			9,12-Octadecadienoic acid (Z,Z)-	140136	000060-33-3	99
41	20.372	1.30	D:\DATABASE\NIST14.L			
			3,6-Dimethyl-5-oxo-1,2,3,5-tetrahydroimidazo[1,2-a]pyrimidine	35878	058910-42-2	35
			4,5,6,7-Tetrahydro-benzo[c]thiophene-1-carboxylic acid (2-cyano-phenyl)-amide	141774	1000300-78-1	25
			4,5,6,7-Tetrahydro-benzo[c]thiophene-1-carboxylic acid (2-butoxy-phenyl)-amide	187301	1000274-81-4	20
42	22.238	2.84	D:\DATABASE\NIST14.L			
			4H-1-Benzopyran-4-one, 5,6,7-trimethoxy-2-(4-methoxyphenyl)-	198899	001168-42-9	99
			4H-1-Benzopyran-4-one, 5,6,7-trimethoxy-2-(4-methoxyphenyl)-	198896	001168-42-9	99
			4H-1-Benzopyran-4-one, 5,6,7-trimethoxy-2-(4-methoxyphenyl)-	198897	001168-42-9	98
43	22.475	5.51	D:\DATABASE\NIST14.L			
			Benzoic acid, 4,5-dimethoxy-2-(3-phenylpropionylamino)-	187146	1000304-07-8	46
			4-[2-(Methylamino)-5-oxo-4H,6H,7H-[1,3]thiazolo[4,5-b]pyridin-7-yl]benzonitrile	143479	1000388-18-8	45
			2,4,6-Trimethoxytoluene	49207	014107-97-2	45
44	23.235	0.50	D:\DATABASE\NIST14.L			
			Bis(2-ethylhexyl) phthalate	233372	000117-81-7	81
			Bis(2-ethylhexyl) phthalate	233371	000117-81-7	74
			Di-n-octyl phthalate	233363	000117-84-0	68
45	23.658	1.02	D:\DATABASE\NIST14.L			

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Library Search Report

Data Path : D:\MassHunter\GCMS\2\
Data File : 2020_11_23_C Reticulata_M.D
Acq On : 23 Nov 2020 17:27
Operator : NGR
Sample : Undiksa/Kimia
Misc : Laksmi
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			2,3-Di(2,2-dimethylethyl)thiophene -1,1-dioxide	90972	128788-12-5	25
			Methyl 2-oxo-5,6,7,8-tetrahydro-1H -quinoline-3-carboxylate	71367	125031-45-0	25
			2-((4aS,8R,8aR)-4a,8-Dimethyl-3,4, 4a,5,6,7,8,8a-octahydronaphthalen- 2-yl)propan-2-ol	85830	194607-96-0	18
46	23.961	3.63	D:\DATABASE\NIST14.L			
			1,19-Eicosadiene	138505	014811-95-1	97
			Pentadecanal-	89765	002765-11-9	96
			Oxirane, hexadecyl-	128814	007390-81-0	96
47	24.323	2.09	D:\DATABASE\NIST14.L			
			Benzaldehyde, 2-nitro-, diaminomet hylidenhydrazone	71767	102632-31-5	38
			26,27-Dinorergosta-5,23-dien-3-ol, (3.beta.)-	221103	035882-88-3	25
			Morphinan-6-one, 4,5-epoxy-2-hydro xy-, (5.alpha.)-	131623	079700-24-6	25
48	24.604	1.67	D:\DATABASE\NIST14.L			
			2-Propenamide, N-(1-methylethyl)-N ,3-diphenyl-	125725	055044-37-6	38
			2,4,5-Trichlorophenyl cinnamate	183664	1000242-39-6	38
			1-Penten-3-one, 4,4-dimethyl-1-phe nyl-	54552	000538-44-3	27
49	25.002	1.80	D:\DATABASE\NIST14.L			
			Eicosane	142238	000112-95-8	96
			Nonahexacontanoic acid	276185	040710-32-5	90
			Eicosane	142241	000112-95-8	90
50	25.393	5.70	D:\DATABASE\NIST14.L			
			Chola-5,22-dien-3-ol, (3.beta.,22Z)-	199586	057597-14-5	50
			Chola-5,22-dien-3-ol, (3.beta.,22E)-	199585	057597-08-7	32
			Kauren-18-ol, acetate, (4.beta.)-	188539	072150-74-4	27
51	25.754	2.86	D:\DATABASE\NIST14.L			
			Docosane	169409	000629-97-0	95
			Eicosane	142241	000112-95-8	92
			2-Methylhexacosane	227470	001561-02-0	90
52	26.169	2.99	D:\DATABASE\NIST14.L			
			Methyl 7-methoxycarbonylamino-3-me thoxymethyl-3-cephem-4-carboxylate 1,1-dioxide	203529	097609-95-5	45
			Methyl 2-([(pyridin-4-ylmethyl)car bamoyl]amino)-4H,5H,6H-cyclopenta[b]thiophene-3-carboxylate	188865	1000389-20-4	38
			benzoic acid, 2-hydroxy-5-nitro-, methyl ester	62727	1000400-34-2	30

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Library Search Report

Data Path : D:\MassHunter\GCMS\2\
Data File : 2020_11_23_C Reticulata_M.D
Acq On : 23 Nov 2020 17:27
Operator : NGR
Sample : Undiksa/Kimia
Misc : Laksmi
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
53	26.412	2.70	D:\DATABASE\NIST14.L			
			2,5-Dimethoxy-4-nitro-phenethylamine	88909	1000335-02-1	44
			1-Ethanone, 1-[4-amino-2-(2-propenylamino)-5-thiazolyl]-	62661	1000338-04-2	38
			2C-N	88900	261789-00-8	25
54	26.605	1.07	D:\DATABASE\NIST14.L			
			Tricosane	182655	000638-67-5	97
			Eicosane	142238	000112-95-8	96
			Eicosane	142241	000112-95-8	91
55	26.875	0.37	D:\DATABASE\NIST14.L			
			Chola-5,22-dien-3-ol, (3.beta.,22Z)-	199586	057597-14-5	48
			Sesquirosefuran	81634	039007-93-7	46
			n-Propyl 11-octadecenoate	182559	1000336-71-7	38

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LAMPIRAN 15. Komponen dan Kandungan Kimia Minyak Atsiri Kulit Jeruk Keprok Metode Distilasi Uap Air

Library Search Report

Data Path : D:\MassHunter\GCMS\2\
Data File : 2020_11_23_C Reticulata.D
Acq On : 23 Nov 2020 13:43
Operator : NGR
Sample : Undiksa/Kimia
Misc : Laksmi
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	4.242	1.46	D:\DATABASE\NIST14.L			
			Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)-	16271	002867-05-2	97
			Bicyclo[3.1.0]hex-2-ene, 4-methyl-1-(1-methylethyl)-	16269	028634-89-1	94
			Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)-	16277	002867-05-2	91
2	4.381	3.93	D:\DATABASE\NIST14.L			
			.alpha.-Pinene	16068	000080-56-8	83
			(1S)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	16223	007785-26-4	80
			(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	16224	007785-70-8	80
3	4.652	0.21	D:\DATABASE\NIST14.L			
			Camphene	16039	000079-92-5	97
			Camphene	16029	000079-92-5	97
			Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene-, (1S)-	16285	005794-04-7	96
4	5.073	7.13	D:\DATABASE\NIST14.L			
			.gamma.-Terpinene	16078	000099-85-4	93
			Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)-	16270	003387-41-5	89
			.gamma.-Terpinene	16074	000099-85-4	81
5	5.348	5.78	D:\DATABASE\NIST14.L			
			3-Carene	16028	013466-78-9	60
			(+)-3-Carene	16050	000498-15-7	60
			3-Carene	16036	013466-78-9	60
6	5.551	2.30	D:\DATABASE\NIST14.L			
			Octanal	12689	000124-13-0	97
			Octanal	12692	000124-13-0	91
			Octanal	12691	000124-13-0	91
7	5.860	1.95	D:\DATABASE\NIST14.L			
			1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	16247	000099-86-5	97
			Cyclohexene, 1-methyl-4-(1-methylethylidene)-	16238	000586-62-9	96
			Cyclohexene, 1-methyl-4-(1-methylethylidene)-	16237	000586-62-9	95
8	6.201	26.16	D:\DATABASE\NIST14.L			
			D-Limonene	16046	005989-27-5	95
			D-Limonene	16045	005989-27-5	93
			D-Limonene	16044	005989-27-5	86
9	6.394	1.41	D:\DATABASE\NIST14.L			
			1,3,6-Octatriene, 3,7-dimethyl-, (Z)-	16175	003338-55-4	98
			.beta.-Ocimene	16062	013877-91-3	98

Bahan Alam New.M Mon Nov 23 14:35:40 2020

Library Search Report

Data Path : D:\MassHunter\GCMS\2\
Data File : 2020_11_23_C Reticulata.D
Acq On : 23 Nov 2020 13:43
Operator : NGR
Sample : Undiksa/Kimia
Misc : Laksmi
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			1,3,7-Octatriene, 3,7-dimethyl-	16133	000502-99-8	97
10	6.610	5.54	D:\DATABASE\NIST14.L			
			.gamma.-Terpinene	16077	000099-85-4	95
			3-Carene	16028	013466-78-9	94
			.gamma.-Terpinene	16078	000099-85-4	93
11	6.754	1.67	D:\DATABASE\NIST14.L			
			1-Octanol	13944	000111-87-5	91
			1-Octanol	13945	000111-87-5	91
			Formic acid, octyl ester	31262	000112-32-3	90
12	7.108	2.46	D:\DATABASE\NIST14.L			
			Cyclohexene, 1-methyl-4-(1-methyle thylidene)-	16238	000586-62-9	97
			Cyclohexene, 3-methyl-6-(1-methyle thylidene)-	16231	000586-63-0	96
			(+)-4-Carene	16052	029050-33-7	96
13	7.285	4.60	D:\DATABASE\NIST14.L			
			Linalool	27447	000078-70-6	96
			Linalool	27452	000078-70-6	86
			Linalool	27451	000078-70-6	86
14	7.674	0.33	D:\DATABASE\NIST14.L			
			2-Cyclohexen-1-ol, 1-methyl-4-(1-m ethylethyl)-, trans-	27793	029803-81-4	91
			2-Cyclohexen-1-ol, 1-methyl-4-(1-m ethylethyl)-, cis-	27783	029803-82-5	91
			2-Cyclohexen-1-ol, 1-methyl-4-(1-m ethylethyl)-, cis-	27779	029803-82-5	62
15	7.946	1.12	D:\DATABASE\NIST14.L			
			Limonene oxide, trans-	25881	004959-35-7	90
			Limonene oxide, trans-	25872	004959-35-7	87
			(+)-(E)-Limonene oxide	25879	006909-30-4	80
16	8.154	1.35	D:\DATABASE\NIST14.L			
			6-Octenal, 3,7-dimethyl-, (R)-	27601	002385-77-5	96
			Citronellal	27479	000106-23-0	68
			1-Hexene, 3,3-dimethyl-	6857	003404-77-1	46
17	8.610	2.68	D:\DATABASE\NIST14.L			
			Terpinen-4-ol	27498	000562-74-3	96
			Terpinen-4-ol	27505	000562-74-3	96
			3-Cyclohexen-1-ol, 4-methyl-1-(1-m ethylethyl)-, (R)-	27776	020126-76-5	95
18	8.818	1.97	D:\DATABASE\NIST14.L			
			L-.alpha.-Terpineol	27533	010482-56-1	90
			.alpha.-Terpineol	27530	000098-55-5	90
			L-.alpha.-Terpineol	27531	010482-56-1	90
19	8.982	3.13	D:\DATABASE\NIST14.L			

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Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Decanal	29133	000112-31-2	99
			Decanal	29128	000112-31-2	98
			Decanal	29131	000112-31-2	91
20	9.452	3.63	D:\DATABASE\NIST14.L			
			Benzene, 1-methoxy-4-methyl-2-(1-m ethylethyl)-	34995	031574-44-4	94
			Benzene, 1-methoxy-4-methyl-2-(1-m ethylethyl)-	34990	031574-44-4	91
			Benzene, 2-methoxy-1-methyl-4-(1-m ethylethyl)-	34991	006379-73-3	91
21	9.736	0.19	D:\DATABASE\NIST14.L			
			2,6-Octadien-1-ol, 2,7-dimethyl-	27620	022410-74-8	83
			2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-	27683	000106-25-2	70
			Geraniol	27446	000106-24-1	64
22	9.835	0.26	D:\DATABASE\NIST14.L			
			2-Decenal, (E)-	27515	003913-81-3	80
			2-Decenal, (Z)-	27510	002497-25-8	76
			1-Undecene, 9-methyl-	38317	074630-41-4	64
23	9.973	1.27	D:\DATABASE\NIST14.L			
			Cyclopentane, pentyl-	18431	003741-00-2	86
			3-Tetradecene, (Z)-	61852	041446-67-7	80
			1-Decanol	30614	000112-30-1	76
24	10.333	1.85	D:\DATABASE\NIST14.L			
			Thymol	24339	000089-83-8	93
			Phenol, 2,3,5,6-tetramethyl-	24433	000527-35-5	87
			3-Methyl-4-isopropylphenol	24408	003228-02-2	83
25	10.652	0.84	D:\DATABASE\NIST14.L			
			2-Methoxy-4-vinylphenol	25129	007786-61-0	70
			2,4-Decadienal, (E,E)-	25877	025152-84-5	53
			Ethanone, 1-(2-hydroxy-5-methylphe nyl)-	25239	001450-72-2	52
26	10.996	0.78	D:\DATABASE\NIST14.L			
			Cyclohexene, 4-ethenyl-4-methyl-3-(1-methylethenyl)-1-(1-methylethyl)-, (3R-trans)-	68824	020307-84-0	99
			Cyclohexene, 4-ethenyl-4-methyl-3-(1-methylethenyl)-1-(1-methylethyl)-, (3R-trans)-	68823	020307-84-0	98
			Cyclohexene, 4-ethenyl-4-methyl-3-(1-methylethenyl)-1-(1-methylethyl)-, (3R-trans)-	68822	020307-84-0	98
27	11.123	0.18	D:\DATABASE\NIST14.L			
			2,6-Octadiene, 2,6-dimethyl-	17321	002792-39-4	98
			6-Octen-1-ol, 3,7-dimethyl-, propa noate	76305	000141-14-0	83

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Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Citronellyl butyrate	89554	000141-16-2	83
28	11.299	0.71	D:\DATABASE\NIST14.L			
			n-Decanoic acid	41223	000334-48-5	98
			n-Decanoic acid	41224	000334-48-5	98
			n-Decanoic acid	41220	000334-48-5	90
29	11.537	0.31	D:\DATABASE\NIST14.L			
			Geranyl acetate	61517	000105-87-3	91
			2,6-Octadien-1-ol, 3,7-dimethyl-, acetate	61587	016409-44-2	91
			Butanoic acid, 3,7-dimethyl-2,6-octadienyl ester, (E)-	87637	000106-29-6	87
30	11.756	0.66	D:\DATABASE\NIST14.L			
			Cyclohexane, 1-ethenyl-1-methyl-2,4-bis(1-methylethenyl)-, [1S-(1.alpha.,2.beta.,4.beta.)]-	68845	000515-13-9	93
			Cyclohexane, 1-ethenyl-1-methyl-2,4-bis(1-methylethenyl)-, (1.alpha.,2.beta.,4.beta.)-	68831	033880-83-0	64
			Cyclohexane, 1-ethenyl-1-methyl-2,4-bis(1-methylethenyl)-	68686	110823-68-2	60
31	11.886	0.89	D:\DATABASE\NIST14.L			
			Tridecanal	63513	010486-19-8	91
			Octadecanal	128803	000638-66-4	91
			Tridecanal	63515	010486-19-8	87
32	12.297	1.86	D:\DATABASE\NIST14.L			
			.gamma.-Elemene	68537	029873-99-2	97
			.gamma.-Elemene	68546	029873-99-2	97
			1,5-Cyclodecadiene, 1,5-dimethyl-8-(1-methylethylidene)-, (E,E)-	68726	015423-57-1	97
33	12.965	0.94	D:\DATABASE\NIST14.L			
			Germacrene D	68507	023986-74-5	99
			Germacrene D	68505	023986-74-5	98
			(S,1Z,6Z)-8-Isopropyl-1-methyl-5-methylenecyclodeca-1,6-diene	68715	317819-80-0	93
34	13.171	0.52	D:\DATABASE\NIST14.L			
			.alpha.-Farnesene	68560	000502-61-4	89
			Humulene	68479	006753-98-6	74
			.alpha.-Farnesene	68574	000502-61-4	68
35	13.918	0.60	D:\DATABASE\NIST14.L			
			1,5-Cyclodecadiene, 1,5-dimethyl-8-(1-methylethylidene)-, (E,E)-	68726	015423-57-1	95
			1H-Cyclopropa[a]naphthalene, 1a,2,3,3a,4,5,6,7b-octahydro-1,1,3a,7-tetramethyl-, [1aR-(1a.alpha.,3a.alpha.,7b.alpha.)]-	68920	000489-29-2	91
			Alloaromadendrene	68577	025246-27-9	83

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Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 6

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
36	15.011	0.77	D:\DATABASE\NIST14.L			
			(Z)-Ethyl 3-(4-methoxyphenyl)acrylate	70273	051507-22-3	99
			Ethyl p-methoxycinnamate	70250	001929-30-2	98
			Ethyl p-methoxycinnamate	70251	024393-56-4	97
37	15.200	0.17	D:\DATABASE\NIST14.L			
			2-Propenamide	597	000079-06-1	27
			Hydroxylamine, O-decyl-	42310	029812-79-1	18
			1,3-Dimethylcyclopentanol	7694	019550-46-0	18
38	15.446	0.21	D:\DATABASE\NIST14.L			
			2,6,11-Dodecatrienal, 2,6-dimethyl-10-methylene-	81670	060066-88-8	98
			2,6,9,11-Dodecatetraenal, 2,6,10-trimethyl-	81665	004955-32-2	72
			trans-.beta.-Ocimene	16098	003779-61-1	53
39	16.091	2.07	D:\DATABASE\NIST14.L			
			Ethyl p-methoxycinnamate	70251	024393-56-4	99
			(Z)-Ethyl 3-(4-methoxyphenyl)acrylate	70273	051507-22-3	99
			Ethyl p-methoxycinnamate	70250	001929-30-2	99
40	16.241	0.23	D:\DATABASE\NIST14.L			
			Benzyl Benzoate	76379	000120-51-4	98
			Benzyl Benzoate	76382	000120-51-4	93
			Benzyl Benzoate	76381	000120-51-4	92
41	18.118	2.42	D:\DATABASE\NIST14.L			
			n-Hexadecanoic acid	117419	000057-10-3	99
			n-Hexadecanoic acid	117418	000057-10-3	99
			n-Hexadecanoic acid	117417	000057-10-3	98
42	18.436	0.30	D:\DATABASE\NIST14.L			
			Phenylephrine	37699	000059-42-7	43
			Benzaldehyde, 2-nitro-, diaminomethylidenhydrazone	71767	102632-31-5	43
			Alanyl-.beta.-alanine, TMS derivative	95327	1000333-69-0	43
43	19.785	1.18	D:\DATABASE\NIST14.L			
			9-Octadecenoic acid, (E)-	142088	000112-79-8	94
			9,17-Octadecadienal, (Z)-	125003	056554-35-9	92
			Z,E-3,13-Octadecadien-1-ol	126841	1000131-10-4	91
44	21.998	0.12	D:\DATABASE\NIST14.L			
			Metaraminol	37694	000054-49-9	38
			4-isoquinolinecarboxylic acid, 1,2-dihydro-1-oxo-2-phenyl-	125568	1000401-63-3	38
			2-Amino-1-(o-methoxyphenyl)propane	35701	015402-84-3	35
45	22.786	0.07	D:\DATABASE\NIST14.L			

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Search Libraries: D:\DATABASE\NIST14.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			1-Decanol, 2-octyl-	130951	045235-48-1	35
			Eicosyl isopropyl ether	197682	1000406-34-3	30
			Tetrapentacontane, 1,54-dibromo-	276082	1000156-09-4	30
46	23.236	0.18	D:\DATABASE\NIST14.L			
			2,4,7,14-Tetramethyl-4-vinyl-tricyclo[5.4.3.0(1,8)]tetradecan-6-ol	150240	1000193-31-2	44
			Spiro[azetidin-2-one-4,2'-tricyclo(3,3,1,1(3,7))decane]	56913	059592-02-8	25
			Methyl 2-oxo-5,6,7,8-tetrahydro-1H-quinoline-3-carboxylate	71367	125031-45-0	25
47	24.303	0.18	D:\DATABASE\NIST14.L			
			Eicosane	142241	000112-95-8	40
			1H-Indole, 5-methyl-2-phenyl-	71661	013228-36-9	38
			17,21-Dimethylheptatriacontane	270782	067979-79-7	30
48	25.007	0.75	D:\DATABASE\NIST14.L			
			Eicosane	142241	000112-95-8	59
			Eicosane	142238	000112-95-8	59
			Pentadecane, 2-methyl-	89859	001560-93-6	45
49	25.281	0.19	D:\DATABASE\NIST14.L			
			Pyridine-3-carboxamide, oxime, N-(2-trifluoromethylphenyl)-	140515	288246-53-7	92
			Trichothec-9-en-4-ol, 7,8:12,13-diepoxy-, 2-butenoate, [4.beta.(Z),7.beta.,8.beta.]-	190064	021284-11-7	38
			Benzenemethanol, .alpha.-[(methylamino)methyl]-	25768	006589-55-5	35
50	25.755	0.29	D:\DATABASE\NIST14.L			
			Eicosane	142241	000112-95-8	59
			Docosane, 2,21-dimethyl-	195685	077536-31-3	45
			Pentadecane, 2-methyl-	89859	001560-93-6	44
51	26.606	0.20	D:\DATABASE\NIST14.L			
			Nonahexacontanoic acid	276185	040710-32-5	38
			4-Dehydroxy-N-(4,5-methylenedioxy-2-nitrobenzylidene)tyramine	157264	1000111-66-9	35
			2-Ethylacridine	71643	055751-83-2	30

LAMPIRAN 16. Kromatogram Blanko.

```
File       :D:\MassHunter\GCMS\2\2020_11_23_blangko.D
Operator   : NGR
Acquired   : 23 Nov 2020  10:15      using AcqMethod Bahan Alam New.M
Instrument :
    GC MSD 59778
Sample Name: Udara
Misc Info  : Kimbio
Vial Number: 1
```