

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **A. Kesimpulan**

Berdasarkan hasil pengamatan dapat disimpulkan bahwa :

Pertama, salep minyak buaya muara dengan empat macam basis memiliki homogenitas yang baik selama penyimpanan 4 minggu, sedangkan kemampuan daya lekat dan daya sebar menunjukkan perbedaan yang signifikan. Kemampuan daya lekat tertinggi ditunjukkan oleh basis hidrokarbon, sedangkan daya sebar tertinggi ditunjukkan oleh basis salep larut air.

Kedua , dukungan aktivitas antibakteri tertinggi ditunjukkan oleh basis PEG.

Ketiga, konsentrasi minyak buaya muara dalam basis yang paling efektif sebagai antibakteri yaitu 6 %.

#### **B. Saran**

Perlu dilakukan pengujian aktivitas antibakteri dengan metode yang berbeda pada masing-masing basis.

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**Lampiran 1. Foto buaya muara (*Crocodilus porosus*) dan minyak buaya muara (*Crocodylus porosus*)**



Buaya muara (*Crocodilus porosus*)



Minyak buaya muara (*Crocodylus porosus*)

**Lampiran 2. Gambar alat ujian hasil salep**

Alat ujian dayalekat



Alat ujian dayasebar



Timbangan elektrik

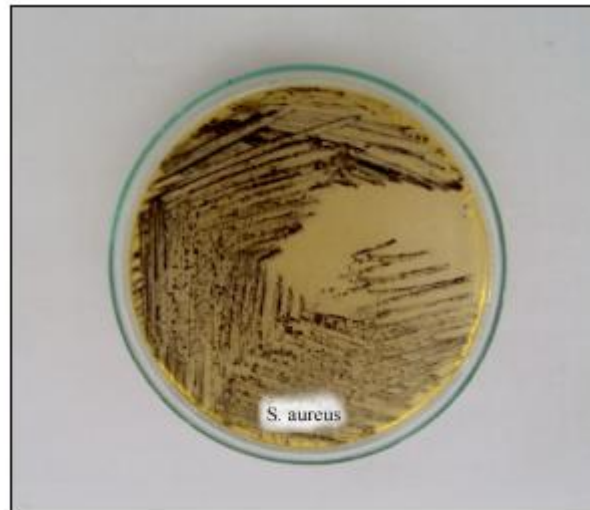


Alat ujian viskositas

**Lampairan 3. Hasil ujitipekrim**

Ujitipekrim

**Lampiran 4. Hasil identifikasi *Staphylococcus aureus* ATCC 25923**



Koloni *Staphylococcus aureus* ATCC 25923 pada media VJA

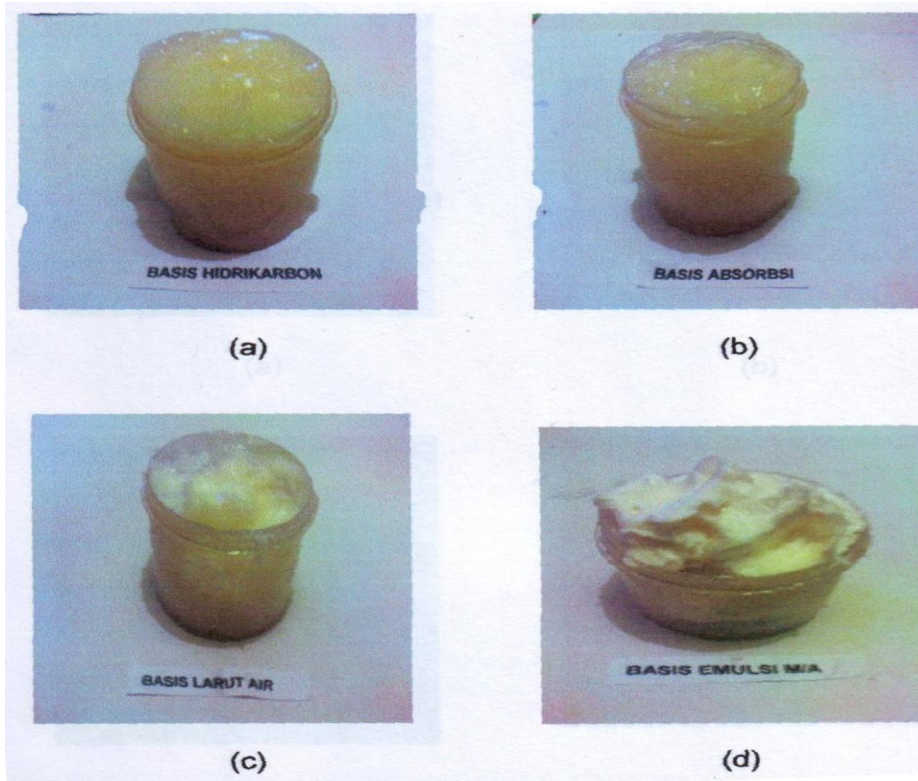


Hasil uji katalase *Staphylococcus aureus* ATCC 25923

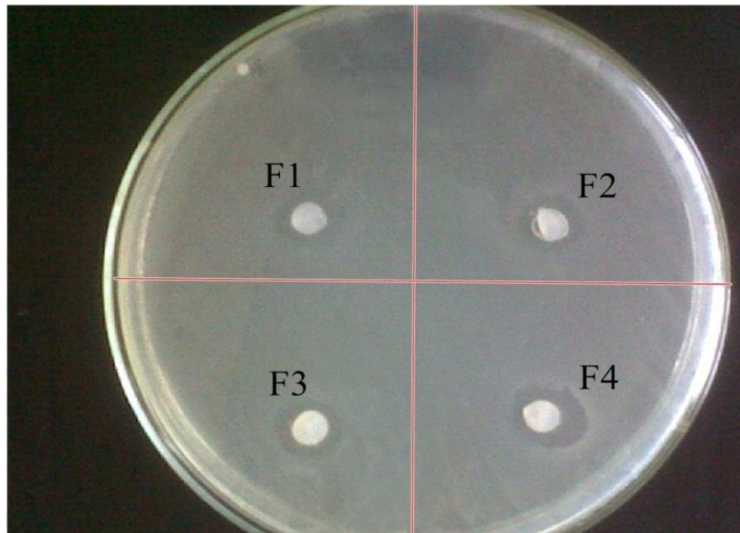


Hasil uji koagulase *Staphylococcus aureus* ATCC 25923

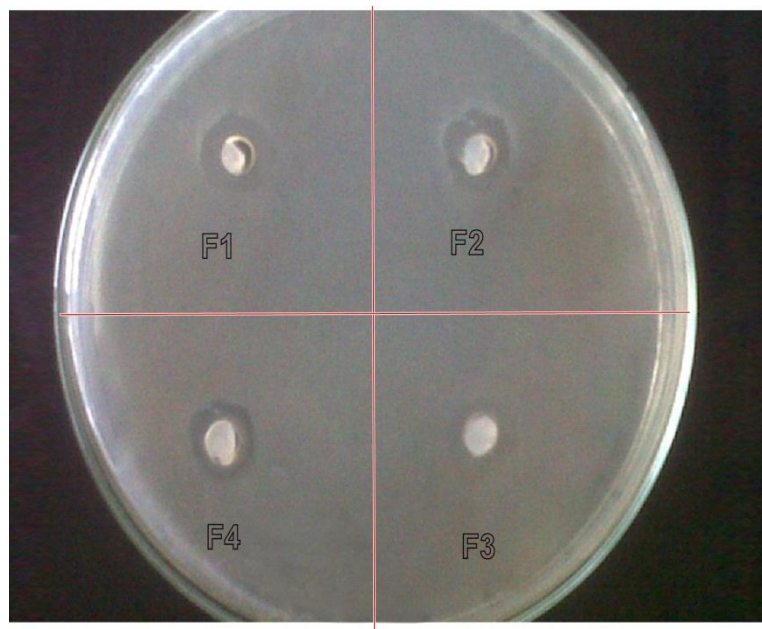


**Lampiran 5. Foto Sediaan salep**

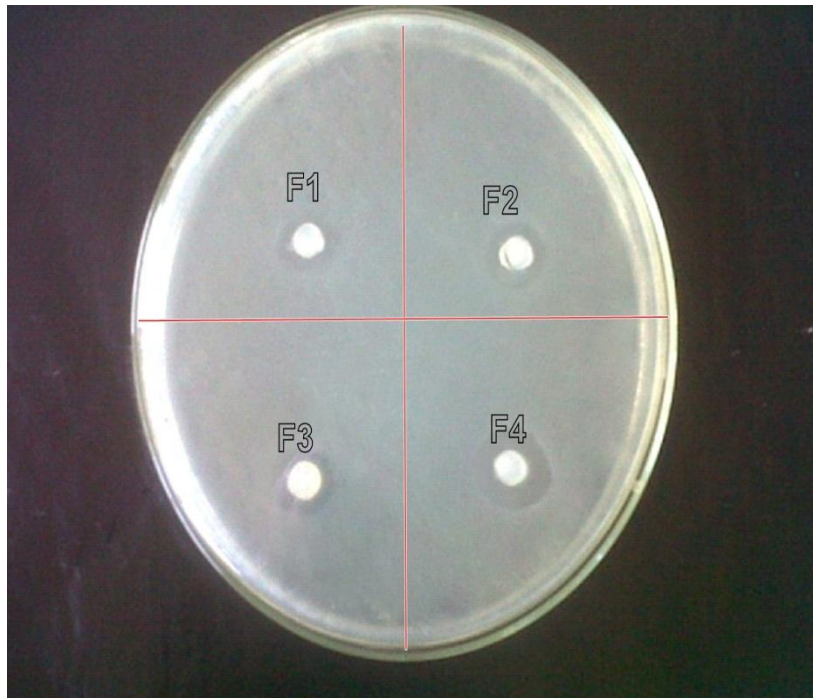
**Lampiran 6. Foto hasil uji dayahambat anti bakterisalep minyak buaya (*Crocodylus porosus*)**



Replikasi 1

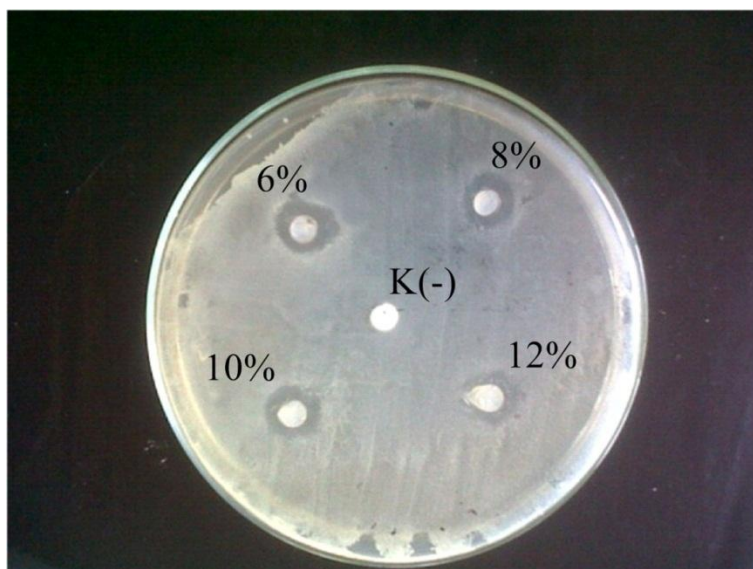


Replikasi 2

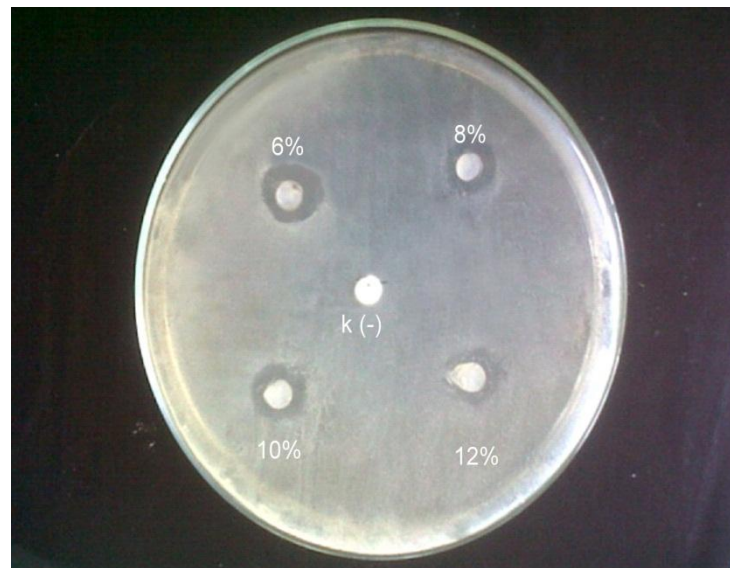


Replikasi 3

Foto hasil uji aktivitas antibakteri pada beberapa konsentrasi



Replikasi 1



Replikasi 2

## Lampiran 7. Data hasiluji homogenitas, daya sebar, daya lekat, dan uji viskositas

### 1. Uji homogenitas

		F I	F II	F III	F IV
<b>minggu 0</b>		homogen	homogen	homogen	homogen
<b>minggu 1</b>		homogen	homogen	homogen	homogen
<b>minggu 2</b>		homogen	homogen	homogen	homogen
<b>minggu 3</b>		homogen	homogen	homogen	homogen
<b>minggu 4</b>		homogen	homogen	homogen	homogen

### 2. Uji daya sebar (minggu ke - 0)

Formula	Beban (g)	Diameter penyebaran (cm)		
		1	2	3
F I	49,414	3,1	3,3	3,3
	99,414	3,5	3,6	3,6
	149,414	3,9	4,0	4,0
	249,414	4,8	4,9	5,0
	299,414	5,0	5,0	5,1
F II	49,414	3,3	3,3	3,3
	99,414	3,7	3,9	3,9
	149,414	3,9	3,9	4,0
	249,414	4,2	4,2	4,2
	299,414	5,0	5,2	5,1
F III	49,414	3,4	3,4	3,4
	99,414	3,5	3,6	3,6
	149,414	3,9	3,9	4,0
	249,414	4,1	4,1	4,1
	299,414	5,2	5,2	5,2
F IV	49,414	4,3	4,4	4,4
	99,414	3,4	3,4	3,4
	149,414	4,9	5,0	5,1
	249,414	5,3	5,3	5,3
	299,414	5,4	5,3	5,5

## Data Pengujianmingguke – 1

Formula	Beban (g)	Diameter penyebaran (cm)		
		1	2	3
F I	49,414	3,2	3,1	3,1
	99,414	4,0	4,1	4,1
	149,414	4,3	4,3	4,3
	249,414	4,8	4,8	4,9
	299,414	5,0	5,0	5,0
F II	49,414	3,0	3,0	3,0
	99,414	3,5	3,6	3,7
	149,414	3,9	4,0	4,0
	249,414	4,2	4,2	4,2
	299,414	4,6	4,6	4,6
F III	49,414	3,2	3,2	3,2
	99,414	3,5	3,6	3,6
	149,414	3,8	3,8	3,8
	249,414	4,0	4,1	4,1
	299,414	4,9	5,0	5,0
F IV	49,414	3,2	3,2	3,3
	99,414	3,5	3,5	3,5
	149,414	3,8	3,8	3,9
	249,414	4,1	4,2	4,2
	299,414	4,9	4,9	5,0

## Data Pengujianmingguke – 2

Formula	Beban (g)	Diameter penyebaran (cm)		
		1	2	3
F I	49,414	2,6	2,6	2,7
	99,414	2,9	2,9	2,9
	149,414	3,4	3,6	3,6
	249,414	3,8	3,8	3,8
	299,414	4,2	4,6	4,6
F II	49,414	2,5	2,5	2,5
	99,414	2,6	2,7	2,7
	149,414	3,0	3,2	3,3
	249,414	3,3	3,4	3,5
	299,414	4,0	4,0	4,0
F III	49,414	3,0	3,0	3,0
	99,414	3,4	3,4	3,5
	149,414	3,6	3,7	3,8
	249,414	4,0	4,0	4,0
	299,414	4,6	4,7	4,8
F IV	49,414	3,0	3,1	3,1
	99,414	3,4	3,4	3,4
	149,414	3,6	3,6	3,7
	249,414	3,9	4,0	4,0
	299,414	4,5	4,6	4,6

## Data Pengujianmingguke – 3

Formula	Beban (g)	Diameter penyebaran (cm)		
		1	2	3
F I	49,414	2,6	2,6	2,6
	99,414	2,7	2,8	2,8
	149,414	3,0	3,1	3,1
	249,414	3,4	3,4	3,4
	299,414	4,0	4,0	4,0
F II	49,414	2,3	2,3	2,4
	99,414	2,5	2,6	2,6
	149,414	2,7	2,8	2,9
	249,414	3,0	3,2	3,2
	299,414	3,4	3,5	3,6
F III	49,414	2,8	2,9	3,0
	99,414	3,1	3,2	3,2
	149,414	3,4	3,5	3,5
	249,414	3,9	3,9	4,0
	299,414	4,3	4,4	4,5
F IV	49,414	2,7	2,8	2,9
	99,414	3,1	3,1	3,1
	149,414	3,3	3,4	3,5
	249,414	3,8	3,8	3,9
	299,414	4,2	4,2	4,2

## Data Pengujianmingguke – 4

Formula	Beban (g)	Diameter penyebaran (cm)		
		1	2	3
F I	49,414	2,3	2,4	2,4
	99,414	2,5	2,5	2,5
	149,414	2,8	2,9	2,9
	249,414	3,0	3,0	3,1
	299,414	3,2	3,2	3,3
F II	49,414	2,2	2,2	2,2
	99,414	2,4	2,4	2,5
	149,414	2,6	2,6	2,7
	249,414	2,9	2,9	3,0
	299,414	3,0	3,1	3,1
F III	49,414	2,5	2,6	2,8
	99,414	3,0	3,0	3,1
	149,414	3,2	3,3	3,3
	249,414	3,5	3,5	3,5
	299,414	3,9	4,1	4,1
F IV	49,414	2,5	2,5	2,6
	99,414	3,0	3,1	3,2
	149,414	3,2	3,3	3,3
	249,414	3,5	3,4	3,5
	299,414	3,9	3,9	4,0

Data rata-rata  $\pm$  SD ujidayasebarsalep

Formula	Beban (g)	Luaspenyebaran			
		minggu I	minggu II	minggu III	minggu IV
F I	49,414	3,1 $\pm$ 0,06	2,7 $\pm$ 0,06	2,6 $\pm$ 0	2,4 $\pm$ 0,06
	99,414	4,1 $\pm$ 0,06	2,9 $\pm$ 0	2,8 $\pm$ 0,06	2,5 $\pm$ 0
	149,414	4,3 $\pm$ 0	3,5 $\pm$ 0,16	3,1 $\pm$ 0,06	2,9 $\pm$ 0,06
	249,414	4,8 $\pm$ 0,06	3,8 $\pm$ 0	3,4 $\pm$ 0	3,0 $\pm$ 0,06
	299,414	5,0 $\pm$ 0	4,5 $\pm$ 0,23	4,0 $\pm$ 0,00	3,2 $\pm$ 0,06
F II	49,414	3,2 $\pm$ 0,11	2,5 $\pm$ 0	2,3 $\pm$ 0,06	2,2 $\pm$ 0
	99,414	3,7 $\pm$ 0,06	2,7 $\pm$ 0,06	2,6 $\pm$ 0,06	2,4 $\pm$ 0,06
	149,414	3,9 $\pm$ 0,06	3,2 $\pm$ 0,15	2,8 $\pm$ 0,10	2,9 $\pm$ 0,06
	249,414	4,9 $\pm$ 0,10	3,4 $\pm$ 0,10	3,1 $\pm$ 0,11	2,9 $\pm$ 0,06
	299,414	5,0 $\pm$ 0,06	4,0 $\pm$ 0	3,5 $\pm$ 0,11	3,1 $\pm$ 0,06
F III	49,414	3,2 $\pm$ 0	3,0 $\pm$ 0	2,9 $\pm$ 0,10	2,6 $\pm$ 0,15
	99,414	3,6 $\pm$ 0	3,4 $\pm$ 0,06	3,2 $\pm$ 0,06	3,0 $\pm$ 0,06
	149,414	3,8 $\pm$ 0	3,7 $\pm$ 0,10	3,5 $\pm$ 0,06	3,3 $\pm$ 0,06
	249,414	4,1 $\pm$ 0	4,0 $\pm$ 0	3,9 $\pm$ 0,06	3,5 $\pm$ 0
	299,414	5,0 $\pm$ 0,06	4,7 $\pm$ 0,10	4,4 $\pm$ 0,10	4,0 $\pm$ 0,11
F IV	49,414	3,2 $\pm$ 0,06	3,1 $\pm$ 0,00	2,8 $\pm$ 0,10	2,5 $\pm$ 0,06
	99,414	3,5 $\pm$ 0	3,4 $\pm$ 0,06	3,1 $\pm$ 0	3,0 $\pm$ 0,10
	149,414	3,8 $\pm$ 0,06	3,6 $\pm$ 0,10	3,4 $\pm$ 0,10	3,3 $\pm$ 0
	249,414	4,2 $\pm$ 0,06	4,0 $\pm$ 0,00	3,8 $\pm$ 0,06	3,5 $\pm$ 0,06
	299,414	5,0 $\pm$ 0,06	4,6 $\pm$ 0,10	4,2 $\pm$ 0	4,0 $\pm$ 0,10

## 3. Ujidayalekat

Mingguke	F I			F II			F III			F IV		
	a	b	c	a	b	c	a	b	c	a	b	c
0	2.47	5.24	1.45	3.20	5.48	1.45	3.00	2.14	1.10	1.42	2.10	2.15
1	2.49	3.05	4.25	2.11	2.58	4.25	1.08	1.20	1.48	1.54	2.15	2.05
2	2.38	0.08	1.28	0.21	0.08	0.20	0.02	0.06	0.08	1.13	0.36	1.45
3	1.15	1.20	1.15	1.10	1.20	1.14	2.25	2.20	2.20	1.20	1.20	1.23
4	1.29	1.15	1.28	1.12	1.15	1.18	2.27	2.20	2.21	1.22	1.15	1.23



## Rata-rata pengujiandayalekat

WaktuPemeriksaan	F I	F II	F III	F IV
Mingguke 1	3,00	3,31	2,10	2,00
Mingguke 2	3,20	2,70	1,30	1,90
Mingguke 3	1,25	0,22	2,55	1,25
Mingguke 4	1,20	0,15	4,40	1,15

## Data ujiviskositas

Mingguke	Viskositas (dpas)											
	Formula I			Formula II			Formula III			Formula IV		
	a	b	c	a	b	c	a	b	c	a	b	c
1	150	160	130	250	250	260	200	210	210	130	140	120
2	200	190	210	280	270	270	200	220	210	200	190	190
3	210	200	210	270	280	280	230	210	220	190	190	200
4	160	170	160	280	285	280	220	210	220	150	160	170

Rata-rata  $\pm$  SD danujiviskositas

Mingguke	Viskositas (dpas)											
	Formula I			Formula II			Formula III			Formula IV		
1	146 $\pm$ 66 $\pm$ 15,28			253,33 $\pm$ 5,77			206,66 $\pm$ 5,77			130,00 $\pm$ 15,81		
2	200,00 $\pm$ 10,00			273,33 $\pm$ 5,76			210,00 $\pm$ 12,25			193,33 $\pm$ 5,77		
3	206,66 $\pm$ 5,77			276,66 $\pm$ 5,77			220,00 $\pm$ 10,00			193,33 $\pm$ 5,77		
4	163,33 $\pm$ 5,77			281,66 $\pm$ 2,88			216,66 $\pm$ 5,77			160,00 $\pm$ 10,00		

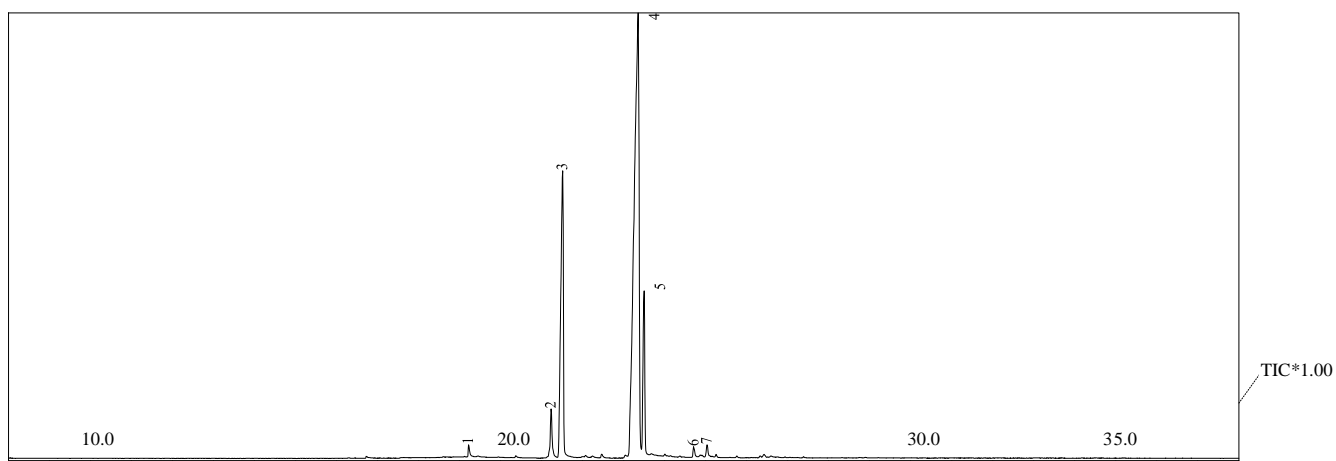
## Lampiran 8.Hasilidentifikasiuji GCMS



Lab.KimiaOrganikFMIPA- UGM

## Sample Information

Analyzedby : Admin  
SampleName : MINYAKBUAYAMUARA, DEWISHINTA  
SampleID : 746.12  
DataFile : D:\MARET2012\DEWI SHINTA30712.QGD  
MethodFile : D:\MARET2012\ESTER3IKAN.qgm  
TuningFile : C:\GCMSsolution\System\Tune1\FEBRUARI12.qgt



Peak#	R.T	Time	Area	Area%	Height	Name
116	220	16.192	16.3006	403590.522	63749	
218	234	18.150	18.3503	4442972.811	1063265	
318	513	18.392	18.6422	744755222.356	372892	
420	356	20.108	20.4338	063054865.679	768990	
520	498	20.442	20.5839	3106807.583	566513	
621	710	21.667	21.7835	644140.462	25258	
722	037	21.983	22.1007	428690.612	53679	

122780719100.0021514346

GCMS-QP2010SSHIMADZU  
 Kolom:RastekRXi-5MS  
 Panjang:30meter  
 ID:0,25mm Gaspembawa:Helium Pengionan:EI  
 70Ev

## Method

[Comment]

=====AnalyticalLine1=====

[GC-2010]

ColumnOvenTemp.:80.0 °C

InjectionTemp. :310.00°C

InjectionMode :SplitFlow

ControlMode :Pressure

Pressure :16.5kPa

Total Flow :80.0mL/min

ColumnFlow :0.50mL/min

LinearVelocity :26.1cm/sec

PurgeFlow :3.0mL/min

SplitRatio :153.0

HighPressure Injection :OFF

Carrier GasSaver :OFF

SplitterHold :OFF

OvenTemp. Program

RateTemperature(°C)HoldTime(min)

-	80.0	5.00
10.00	300.0	15.00

<ReadyCheckHeatUnit>

ColumnOven :Yes

SPL1 :Yes

MS : No

<ReadyCheckDetector(FTD)>

<ReadyCheckBaselineDrift >

<ReadyCheckInjectionFlow>

SPL1Carrier :Yes

SPL1Purge :Yes

<ReadyCheckAPCFlow>

<ReadyCheckDetectorAPCFlow>

External Wait :No

EquilibriumTime :1.0min

[GCProgram]

[GCMS-QP2010]

IonSourceTemp :250.00°C

InterfaceTemp. :305.00°C

SolventCutTime :4.80min

Detector GainMode :Relative

DetectorGain :0.00kV

Threshold :0

[MSTable]

--Group1 - Event1--

Start Time :5.00min

EndTime :42.00min

ACQMode :Scan

Event Time :0.50sec

ScanSpeed :1250

Startm/z :28.00

Endm/z :600.00

SampleInletUnit :GC

[MSProgram]

Use MS Programe : OFF

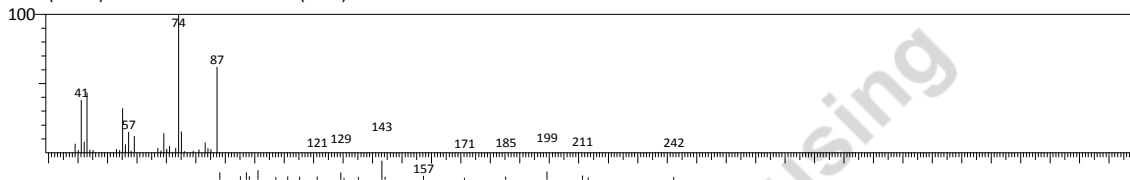
## Library

&lt;&lt;Target&gt;&gt;

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MassPeaks:50RawMode:Single16.217(1347)BasePeak:

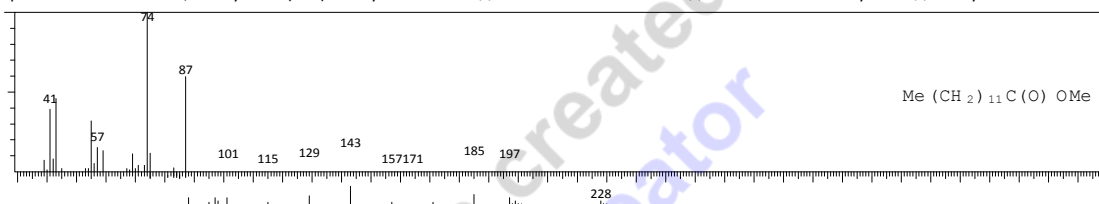
74.05(53860) BGMMode:PeakStart16.192(1344)



30507090110130150170190210230250270290310330350370390 Hit#:1 Entry:91675 Library:WILEY229.LIB

SI:95Formula:C14 H28 O2CAS:1731-88-0MolWeight:228RetIndex:0

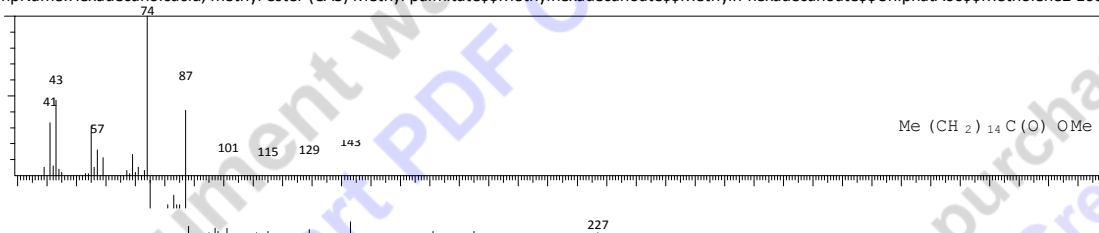
CompName:Tridecanoicacid, methyl ester(CAS) Methyltridecanoate\$\$METHYLN-TRIDECANOATE\$\$Tridecanoicacidmylester \$\$Methyl este100



30507090110130150170190210230250270290310330350370390 Hit#:2 Entry:124637 Library:WILEY229.LIB

SI:95Formula:C17 H34 O2CAS:112-39-0MolWeight:270RetIndex:0

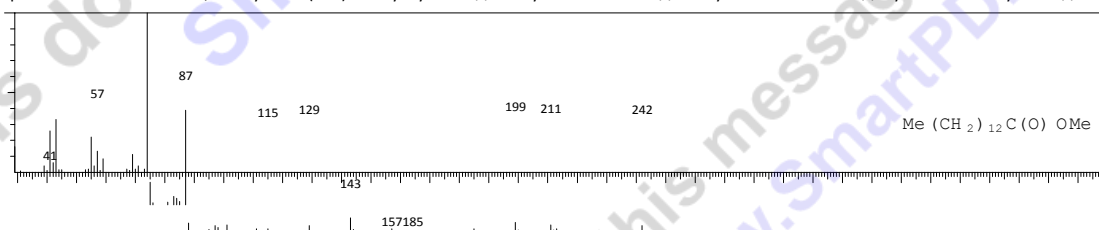
CompName:Hexadecanoicacid, methyl ester (CAS) Methyl palmitate\$\$Methylhexadecanoate\$\$Methyln-hexadecanoate\$\$Uniphata60\$\$Metholene2 100



30507090110130150170190210230250270290310330350370390 Hit#:3 Entry:103147 Library:WILEY229.LIB

SI:95Formula:C15 H30 O2CAS:124-10-7MolWeight:242RetIndex:0

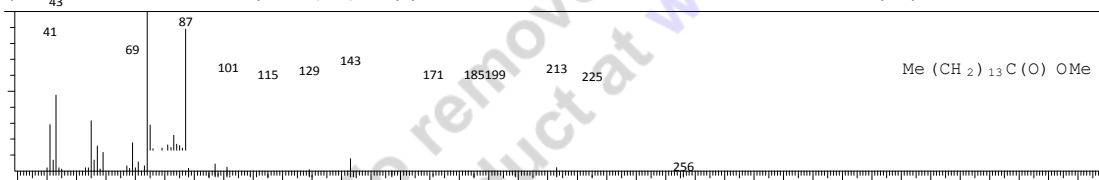
CompName:Tetradecanoicacid, methyl ester(CAS) Methylmyristate\$\$Methyltetradecanoate\$\$Methyl n-tetradecanoate\$\$Myristicacidmylester \$\$ 100



30507090110130150170190210230250270290310330350370390 Hit#:4 Entry:114057 Library:WILEY229.LIB

SI:95Formula:C16 H32 O2CAS:7132-64-1MolWeight:256RetIndex:0

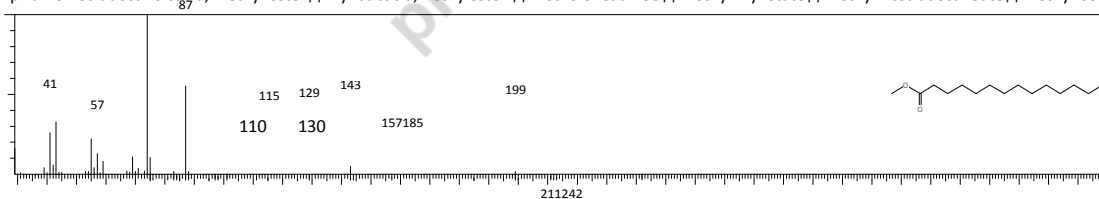
CompName:Pentadecanoicacid, methyl ester(CAS)Methyl pentadecanoate\$\$PENTADECANOICACID-METHYLESTER\$\$Methyl n-pentadecanoate100



30507090110130150170190210230250270290310330350370390 Hit#:5 Entry:32399Library:NIST62.LIB

SI:94Formula:C15H30O2CAS:124-10-7MolWeight:242RetIndex:0

CompName:Tetradecanoicacid, methyl ester\$\$Myristicacid,mylester \$\$Metholeneat2495\$\$Methyl myristate\$\$Methyln-tetradecanoate\$\$Methyl100



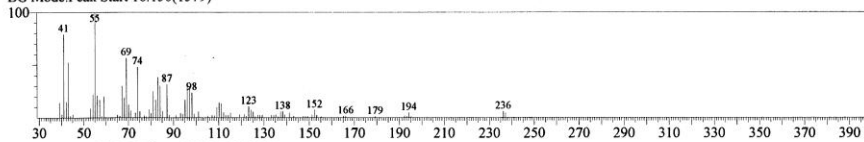
210230250270290310330350370390

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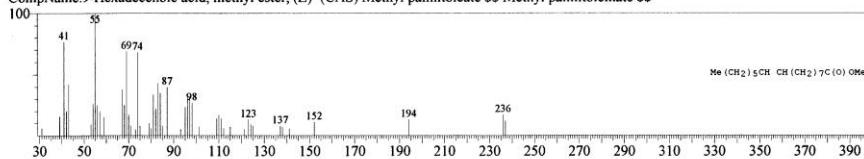
Line#:2 R.Time:18.233(Scan#:1589) MassPeaks:89  
 RawMode:Single 18.233(1589) BasePeak:55.10(99036)  
 BG Mode:Peak Start 18.150(1579)



Hit#:1 Entry:123057 Library:WILEY229.LIB

SI:95 Formula:C17H32O2 CAS:1120-25-8 MolWeight:268 RetIndex:0

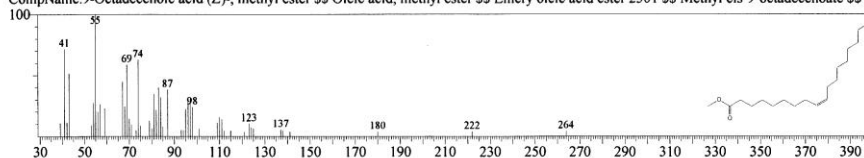
CompName:9-Hexadecenoic acid, methyl ester, (Z)- (CAS) Methyl palmitoleate \$\$ Methyl palmitoleinate \$\$



Hit#:2 Entry:42154 Library:NIST62.LIB

SI:95 Formula:C19H36O2 CAS:112-62-9 MolWeight:296 RetIndex:0

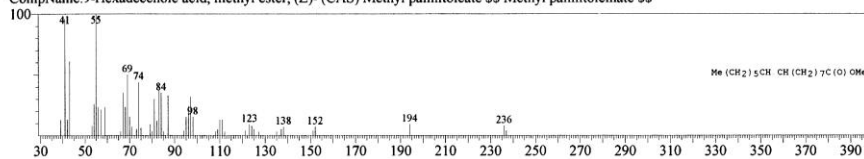
CompName:9-Octadecenoic acid (Z)-, methyl ester \$\$ Oleic acid, methyl ester \$\$ Emery oleic acid ester 2301 \$\$ Methyl cis-9-octadecenoate \$\$



Hit#:3 Entry:123055 Library:WILEY229.LIB

SI:95 Formula:C17H32O2 CAS:1120-25-8 MolWeight:268 RetIndex:0

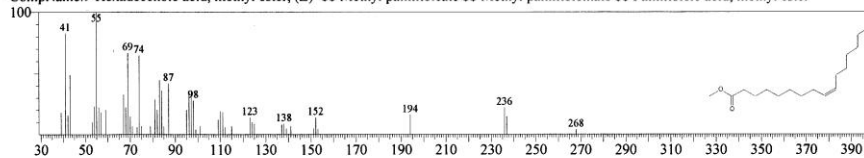
CompName:9-Hexadecenoic acid, methyl ester, (Z)- (CAS) Methyl palmitoleate \$\$ Methyl palmitoleinate \$\$



Hit#:4 Entry:37404 Library:NIST62.LIB

SI:94 Formula:C17H32O2 CAS:1120-25-8 MolWeight:268 RetIndex:0

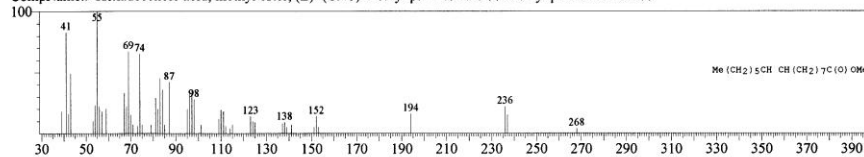
CompName:9-Hexadecenoic acid, methyl ester, (Z)- \$\$ Methyl palmitoleate \$\$ Methyl palmitoleinate \$\$ Palmitoleic acid, methyl ester



Hit#:5 Entry:123056 Library:WILEY229.LIB

SI:94 Formula:C17H32O2 CAS:1120-25-8 MolWeight:268 RetIndex:0

CompName:9-Hexadecenoic acid, methyl ester, (Z)- (CAS) Methyl palmitoleate \$\$ Methyl palmitoleinate \$\$

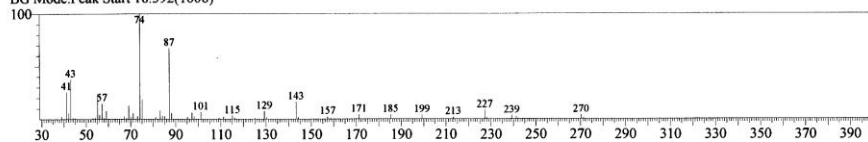


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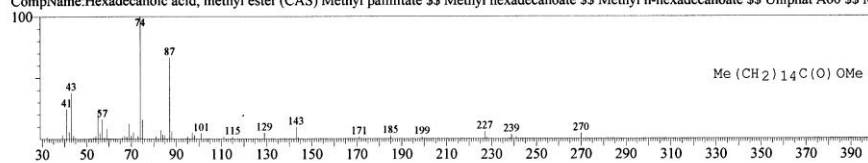
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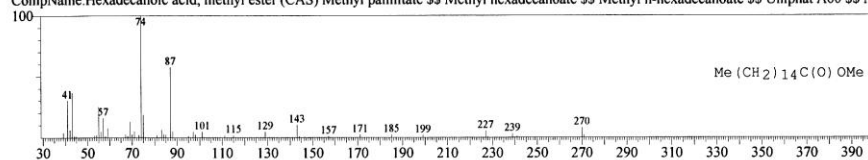
Line#:3 R.Time:18.517(Scan#:1623) MassPeaks:51  
 RawMode:Single 18.517(1623) BasePeak:74.05(1299960)  
 BG Mode:Peak Start 18.392(1608)



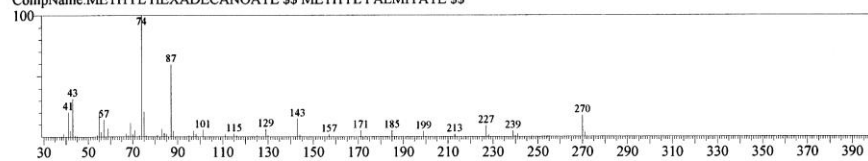
Hit#:1 Entry:124618 Library:WILEY229.LIB  
 SI:97 Formula:C17 H34 O2 CAS:112-39-0 MolWeight:270 RetIndex:0  
 CompName:Hexadecanoic acid, methyl ester (CAS) Methyl palmitate \$\$ Methyl hexadecanoate \$\$ Methyl n-hexadecanoate \$\$ Uniphat A60 \$\$ M



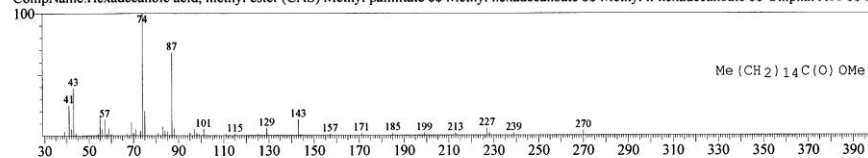
Hit#:2 Entry:124619 Library:WILEY229.LIB  
 SI:96 Formula:C17 H34 O2 CAS:112-39-0 MolWeight:270 RetIndex:0  
 CompName:Hexadecanoic acid, methyl ester (CAS) Methyl palmitate \$\$ Methyl hexadecanoate \$\$ Methyl n-hexadecanoate \$\$ Uniphat A60 \$\$ M



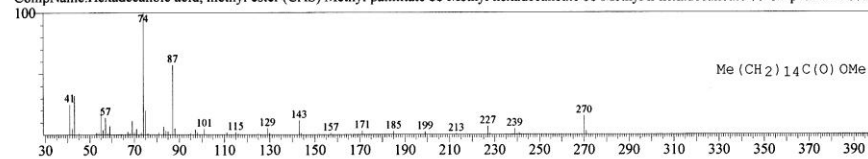
Hit#:3 Entry:124679 Library:WILEY229.LIB  
 SI:96 Formula:C17 H34 O2 CAS:0-00-0 MolWeight:270 RetIndex:0  
 CompName:METHYL HEXADECANOATE \$\$ METHYL PALMITATE \$\$



Hit#:4 Entry:124633 Library:WILEY229.LIB  
 SI:96 Formula:C17 H34 O2 CAS:112-39-0 MolWeight:270 RetIndex:0  
 CompName:Hexadecanoic acid, methyl ester (CAS) Methyl palmitate \$\$ Methyl hexadecanoate \$\$ Methyl n-hexadecanoate \$\$ Uniphat A60 \$\$ M



Hit#:5 Entry:124622 Library:WILEY229.LIB  
 SI:96 Formula:C17 H34 O2 CAS:112-39-0 MolWeight:270 RetIndex:0  
 CompName:Hexadecanoic acid, methyl ester (CAS) Methyl palmitate \$\$ Methyl hexadecanoate \$\$ Methyl n-hexadecanoate \$\$ Uniphat A60 \$\$ M

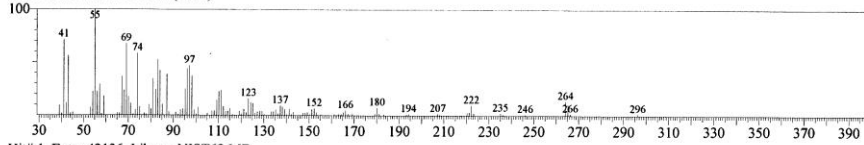


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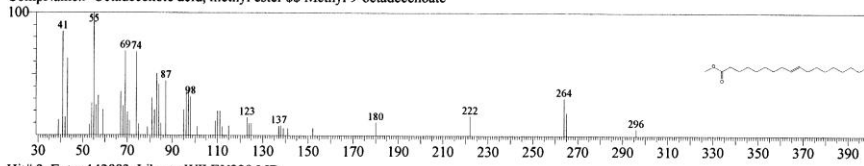
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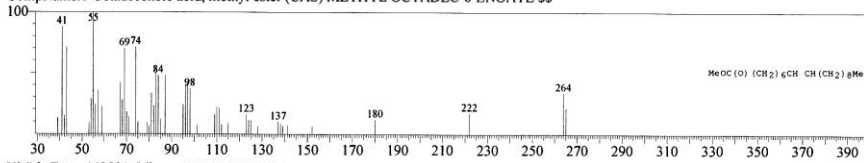
Line#:4 R.Time:20.358(Scan#:1844) MassPeaks:115  
 RawMode:Single 20.358(1844) BasePeak:55.05(714630)  
 BG Mode:Peak Start 20.108(1814)



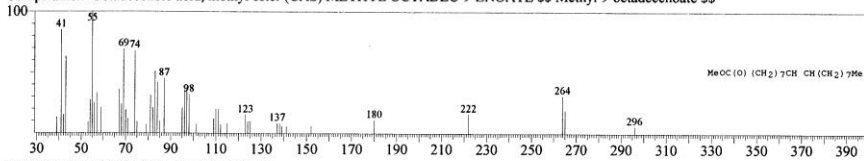
Hit#:1 Entry:42136 Library:NIST62.LIB  
 SI:96 Formula:C19H36O2 CAS:2462-84-2 MolWeight:296 RetIndex:0  
 CompName:9-Octadecenoic acid, methyl ester \$\$ Methyl 9-octadecenoate



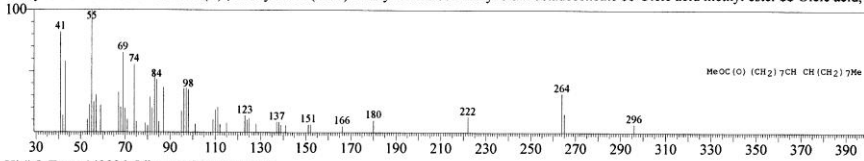
Hit#:2 Entry:142883 Library:WILEY229.LIB  
 SI:96 Formula:C19H36O2 CAS:2345-29-1 MolWeight:296 RetIndex:0  
 CompName:8-Octadecenoic acid, methyl ester (CAS) METHYL OCTADEC-8-ENOATE \$\$



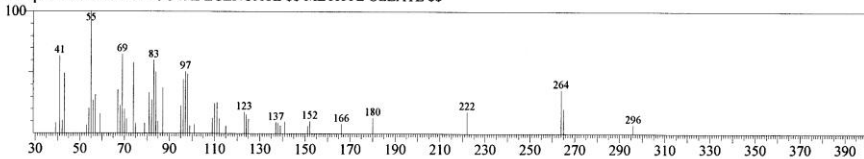
Hit#:3 Entry:142891 Library:WILEY229.LIB  
 SI:95 Formula:C19H36O2 CAS:2462-84-2 MolWeight:296 RetIndex:0  
 CompName:9-Octadecenoic acid, methyl ester (CAS) METHYL OCTADEC-9-ENOATE \$\$ Methyl 9-octadecenoate \$\$



Hit#:4 Entry:142894 Library:WILEY229.LIB  
 SI:95 Formula:C19H36O2 CAS:112-62-9 MolWeight:296 RetIndex:0  
 CompName:9-Octadecenoic acid (Z)-, methyl ester (CAS) Methyl oleate \$\$ Methyl cis-9-octadecenoate \$\$ Oleic acid methyl ester \$\$ Oleic acid, r



Hit#:5 Entry:142936 Library:WILEY229.LIB  
 SI:95 Formula:C19H36O2 CAS:0-00-0 MolWeight:296 RetIndex:0  
 CompName:METHYL 9-OCTADECENOATE \$\$ METHYL OLEATE \$\$



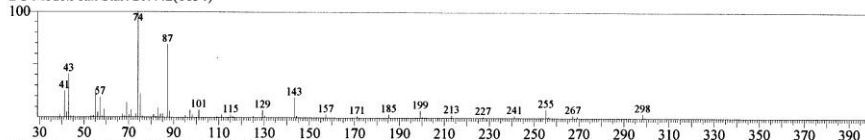


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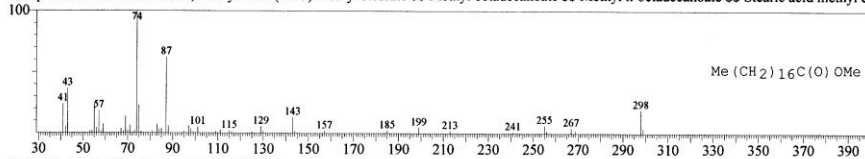
Line#:5 R.Time:20.500(Scan#:1861) MassPeaks:56  
 RawMode:Single 20.500(1861) BasePeak:74.05(680467)  
 BG Mode:Peak Start 20.442(1854)



Hit#1 Entry:144201 Library:WILEY229.LIB

SI:95 Formula:C19H38O2 CAS:112-61-8 MolWeight:298 RetIndex:0

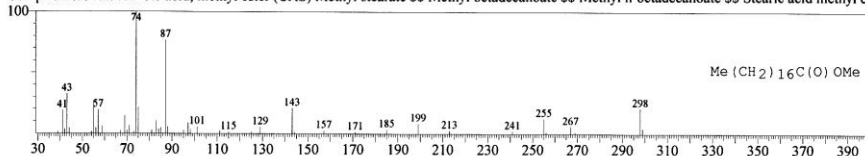
CompName:Octadecanoic acid, methyl ester (CAS) Methyl stearate \$\$ Methyl octadecanoate \$\$ Methyl n-octadecanoate \$\$ Stearic acid methyl es



Hit#2 Entry:144200 Library:WILEY229.LIB

SI:95 Formula:C19H38O2 CAS:112-61-8 MolWeight:298 RetIndex:0

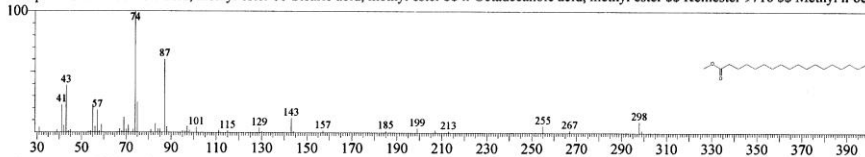
CompName:Octadecanoic acid, methyl ester (CAS) Methyl stearate \$\$ Methyl octadecanoate \$\$ Methyl n-octadecanoate \$\$ Stearic acid methyl es



Hit#3 Entry:42503 Library:NIST62.LIB

SI:95 Formula:C19H38O2 CAS:112-61-8 MolWeight:298 RetIndex:0

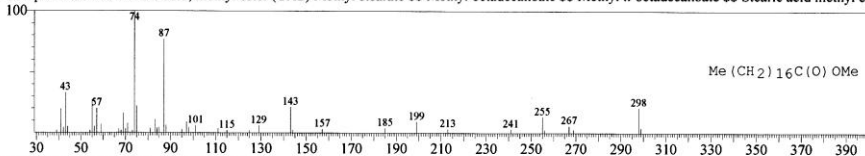
CompName:Octadecanoic acid, methyl ester \$\$ Stearic acid, methyl ester \$\$ n-Octadecanoic acid, methyl ester \$\$ Kemester 9718 \$\$ Methyl n-oct



Hit#4 Entry:144202 Library:WILEY229.LIB

SI:95 Formula:C19H38O2 CAS:112-61-8 MolWeight:298 RetIndex:0

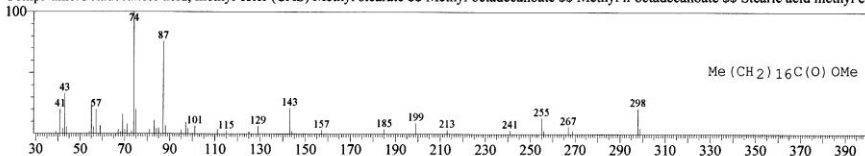
CompName:Octadecanoic acid, methyl ester (CAS) Methyl stearate \$\$ Methyl octadecanoate \$\$ Methyl n-octadecanoate \$\$ Stearic acid methyl es



Hit#5 Entry:144199 Library:WILEY229.LIB

SI:94 Formula:C19H38O2 CAS:112-61-8 MolWeight:298 RetIndex:0

CompName:Octadecanoic acid, methyl ester (CAS) Methyl stearate \$\$ Methyl octadecanoate \$\$ Methyl n-octadecanoate \$\$ Stearic acid methyl es

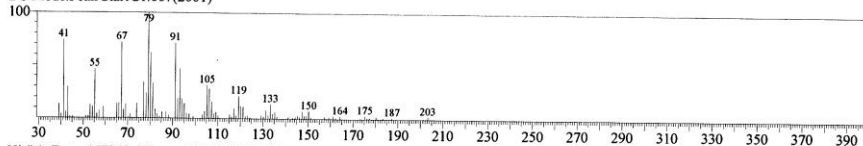


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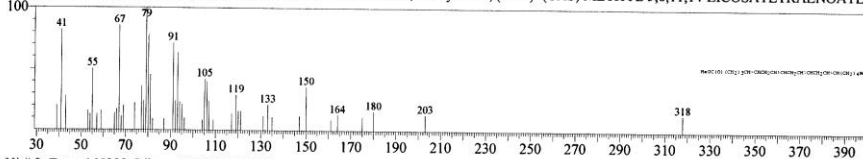
Line#:6 R.Time:21.708(Scan#:2006) MassPeaks:92  
 RawMode:Single 21.708(2006) BasePeak:79.10(19757)  
 BG Mode:Peak Start 21.667(2001)



Hit#:1 Entry:157249 Library:WILEY229.LIB

SI:89 Formula:C21 H34 O2 CAS:2566-89-4 MolWeight:318 RetIndex:0

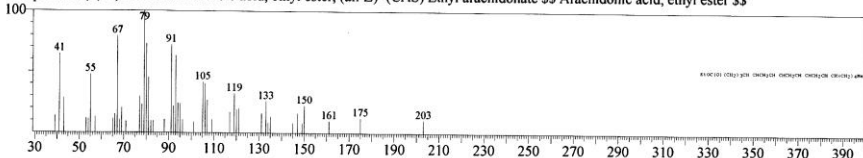
CompName:Methyl arachidonate \$\$ 5,8,11,14-Eicosatetraenoic acid, methyl ester, (all-Z)- (CAS) METHYL 5,8,11,14-EICOSATETRAENOATE :



Hit#:2 Entry:165233 Library:WILEY229.LIB

SI:88 Formula:C22 H36 O2 CAS:1808-26-0 MolWeight:332 RetIndex:0

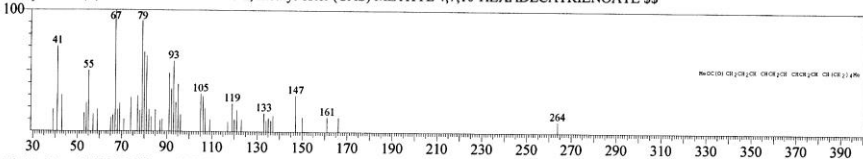
CompName:5,8,11,14-Eicosatetraenoic acid, ethyl ester, (all-Z)- (CAS) Ethyl arachidonate \$\$ Arachidonic acid, ethyl ester \$\$



Hit#:3 Entry:120087 Library:WILEY229.LIB

SI:87 Formula:C17 H28 O2 CAS:17364-31-7 MolWeight:264 RetIndex:0

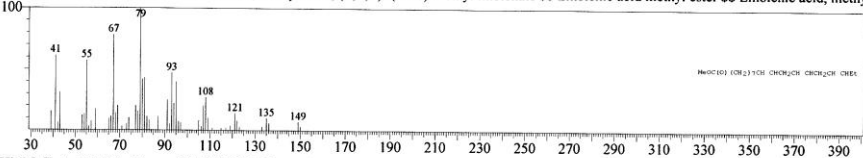
CompName:4,7,10-Hexadecatrienoic acid, methyl ester (CAS) METHYL 4,7,10-HEXADECATRIENOATE \$\$



Hit#:4 Entry:140197 Library:WILEY229.LIB

SI:87 Formula:C19 H32 O2 CAS:301-00-8 MolWeight:292 RetIndex:0

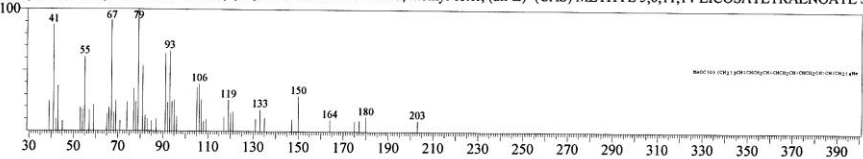
CompName:9,12,15-Octadecatrienoic acid, methyl ester, (Z,Z,Z)- (CAS) Methyl linolenate \$\$ Linolenic acid methyl ester \$\$ Linolenic acid, methyl ester



Hit#:5 Entry:157250 Library:WILEY229.LIB

SI:86 Formula:C21 H34 O2 CAS:2566-89-4 MolWeight:318 RetIndex:0

CompName:Methyl arachidonate \$\$ 5,8,11,14-Eicosatetraenoic acid, methyl ester, (all-Z)- (CAS) METHYL 5,8,11,14-EICOSATETRAENOATE :

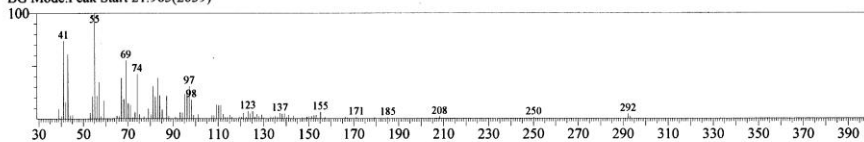


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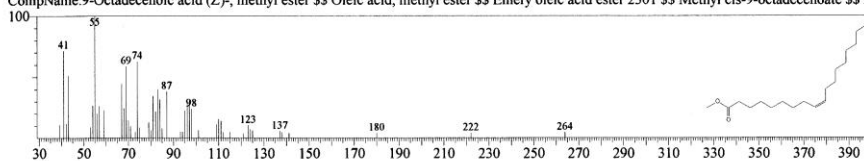
Line#:7 R.Time:22.033(Scan#:2045) MassPeaks:93  
 RawMode:Single 22.033(2045) BasePeak:55.10(23789)  
 BG Mode:Peak Start 21.983(2039)



Hit#:1 Entry:42154 Library:NIST62.LIB

SI:94 Formula:C19H36O2 CAS:112-62-9 MolWeight:296 RetIndex:0

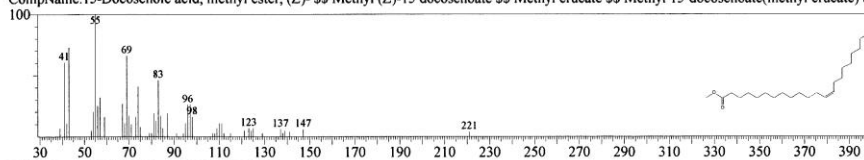
CompName:9-Octadecenoic acid (Z)-, methyl ester \$\$ Oleic acid, methyl ester \$\$ Emery oleic acid ester 2301 \$\$ Methyl cis-9-octadecenoate \$\$ M



Hit#:2 Entry:49548 Library:NIST62.LIB

SI:92 Formula:C23H44O2 CAS:1120-34-9 MolWeight:352 RetIndex:0

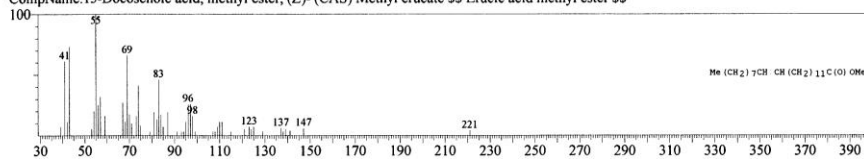
CompName:13-Docosenoic acid, methyl ester, (Z)- \$\$ Methyl (Z)-13 docosenoate \$\$ Methyl erucate \$\$ Methyl 13-docosenoate(methyl erucate) \$\$



Hit#:3 Entry:175148 Library:WILEY229.LIB

SI:92 Formula:C23H44O2 CAS:1120-34-9 MolWeight:352 RetIndex:0

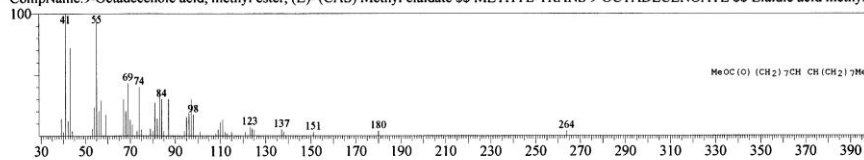
CompName:13-Docosenoic acid, methyl ester, (Z)- (CAS) Methyl erucate \$\$ Erucic acid methyl ester \$\$



Hit#:4 Entry:142902 Library:WILEY229.LIB

SI:92 Formula:C19H36O2 CAS:1937-62-8 MolWeight:296 RetIndex:0

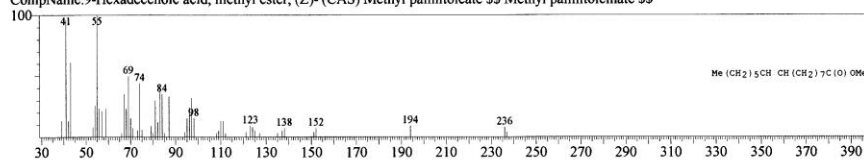
CompName:9-Octadecenoic acid, methyl ester, (E)- (CAS) Methyl elaidate \$\$ METHYL-TRANS 9-OCTADECENOATE \$\$ Elaidic acid methyl e



Hit#:5 Entry:123055 Library:WILEY229.LIB

SI:92 Formula:C17H32O2 CAS:1120-25-8 MolWeight:268 RetIndex:0

CompName:9-Hexadecenoic acid, methyl ester, (Z)- (CAS) Methyl palmitoleate \$\$ Methyl palmitoleate \$\$



### Lampiran 9. Hasil analisis data statistik jiddayasebar, dayalekat, dan viskositas

**One-Sample Kolmogorov-Smirnov Test**

		Diameter penyebaran (cm) minggu 0	Diameter penyebaran (cm) minggu 1	Diameter penyebaran (cm) minggu 2	Diameter penyebaran (cm) minggu 3	Diameter penyebaran (cm) minggu 4
N		60	60	60	60	60
Normal Parameters <sup>a,b</sup>	Mean	4.2367	3.9983	3.5267	3.2683	3.0017
	Std. Deviation	.73114	.62585	.63135	.56942	.49420
	Most Extreme Differences	Absolute	.152	.100	.081	.100
	Positive	.127	.082	.081	.100	.108
	Negative	-.152	-.100	-.072	-.083	-.065
Kolmogorov-Smirnov Z		1.176	.774	.629	.771	.840
Asymp. Sig. (2-tailed)		.126	.587	.823	.591	.480

a. Test distribution is Normal.

b. Calculated from data.

**Descriptives**

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	Between-Component Variance
						Lower Bound	Upper Bound			
Diameter penyebaran (cm) minggu 0	1.00	15	4.1400	.74335	.19193	3.7283	4.5517	3.10	5.10	
	2.00	15	4.0733	.61466	.15871	3.7329	4.4137	3.30	5.20	
	3.00	15	4.0400	.65444	.16897	3.6776	4.4024	3.40	5.20	
	4.00	15	4.6933	.76855	.19844	4.2677	5.1189	3.40	5.50	
	Total	60	4.2367	.73114	.09439	4.0478	4.4255	3.10	5.50	
	Model	Fixed Effects			.69809	.09012	4.0561	4.4172		
	Random Effects				.15363	3.7477	4.7256			
Diameter penyebaran (cm) minggu 1	1.00	15	4.2667	.68522	.17692	3.8872	4.6461	3.10	5.00	
	2.00	15	3.8733	.56501	.14589	3.5604	4.1862	3.00	4.60	
	3.00	15	3.9200	.61783	.15952	3.5779	4.2621	3.20	5.00	
	4.00	15	3.9333	.61257	.15816	3.5941	4.2726	3.20	5.00	
	Total	60	3.9983	.62585	.08080	3.8367	4.1600	3.00	5.00	
	Model	Fixed Effects			.62163	.08025	3.8376	4.1591		
	Random Effects				.09036	3.7108	4.2859			
Diameter penyebaran (cm) minggu 2	1.00	15	3.4667	.68313	.17638	3.0884	3.8450	2.60	4.60	
	2.00	15	3.1467	.56044	.14471	2.8363	3.4570	2.50	4.00	
	3.00	15	3.7667	.59362	.15327	3.4379	4.0954	3.00	4.80	
	4.00	15	3.7267	.53247	.13748	3.4318	4.0215	3.00	4.60	
	Total	60	3.5267	.63135	.08151	3.3636	3.6898	2.50	4.80	
	Model	Fixed Effects			.59512	.07683	3.3728	3.6806		
	Random Effects				.14306	3.0714	3.9820			

Diameter penyebaran (cm) mingguke 3	1.00	15	3.1667	.51640	.13333	2.8807	3.4526	2.60	4.00	
	2.00	15	2.8667	.43370	.11198	2.6265	3.1068	2.30	3.60	
	3.00	15	3.5733	.55993	.14457	3.2633	3.8834	2.80	4.50	
	4.00	15	3.4667	.52190	.13475	3.1776	3.7557	2.70	4.20	
	Total	60	3.2683	.56942	.07351	3.1212	3.4154	2.30	4.50	
	Mode 1	Fixed Effects			.51007	.06585	3.1364	3.4002		
	Random Effects				.15917	2.7618	3.7749			.08400
Diameter penyebaran (cm) mingguke 4	1.00	15	2.8000	.33806	.08729	2.6128	2.9872	2.30	3.30	
	2.00	15	2.6533	.33138	.08556	2.4698	2.8368	2.20	3.10	
	3.00	15	3.2933	.49058	.12667	3.0217	3.5650	2.50	4.10	
	4.00	15	3.2600	.47779	.12337	2.9954	3.5246	2.50	4.00	
	Total	60	3.0017	.49420	.06380	2.8740	3.1293	2.20	4.10	
	Mode 1	Fixed Effects			.41625	.05374	2.8940	3.1093		
	Random Effects				.16171	2.4870	3.5163			.09305

#### Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Diameter penyebaran (cm) mingguke 0	1.199	3	56	.318
Diameter penyebaran (cm) mingguke 1	.119	3	56	.949
Diameter penyebaran (cm) mingguke 2	.519	3	56	.671
Diameter penyebaran (cm) mingguke 3	.519	3	56	.671
Diameter penyebaran (cm) mingguke 4	.650	3	56	.586

#### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Diameter penyebaran (cm) mingguke 0	Between Groups	4.249	3	1.416	2.906	.043
	Within Groups	27.291	56	.487		
	Total	31.539	59			
Diameter penyebaran (cm) mingguke 1	Between Groups	1.470	3	.490	1.268	.294
	Within Groups	21.640	56	.386		
	Total	23.110	59			
Diameter penyebaran (cm) mingguke 2	Between Groups	3.684	3	1.228	3.467	.022
	Within Groups	19.833	56	.354		
	Total	23.517	59			
Diameter penyebaran (cm) mingguke 3	Between Groups	4.561	3	1.520	5.843	.002
	Within Groups	14.569	56	.260		
	Total	19.130	59			
Diameter penyebaran (cm) mingguke 4	Between Groups	4.707	3	1.569	9.056	.000
	Within Groups	9.703	56	.173		
	Total	14.410	59			

## Post Hoc Tests

## Multiple Comparisons

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
						Lower Bound	Upper Bound	
Diameter penyebaran (cm) mingguke 0	LSD	1.00	2.00	.06667	.25491	.795	-.4440	.5773
			3.00	.10000	.25491	.696	-.4106	.6106
		4.00	-.55333*	.25491	.034	-1.0640	-.0427	
	2.00	1.00	3.00	-.06667	.25491	.795	-.5773	.4440
			4.00	.03333	.25491	.896	-.4773	.5440
		3.00	4.00	-.62000*	.25491	.018	-1.1306	-.1094
	3.00	1.00	2.00	-.10000	.25491	.696	-.6106	.4106
			4.00	-.03333	.25491	.896	-.5440	.4773
		2.00	4.00	-.65333*	.25491	.013	-1.1640	-.1427
	4.00	1.00	2.00	.55333*	.25491	.034	.0427	1.0640
			3.00	.62000*	.25491	.018	.1094	1.1306
		4.00	3.00	.65333*	.25491	.013	.1427	1.1640
Diameter penyebaran (cm) mingguke 1	LSD	1.00	2.00	.39333	.22699	.089	-.0614	.8480
			3.00	.34667	.22699	.132	-.1080	.8014
		4.00	.33333	.22699	.148	-.1214	.7880	
	2.00	1.00	3.00	-.39333	.22699	.089	-.8480	.0614
			4.00	-.04667	.22699	.838	-.5014	.4080
		3.00	4.00	-.06000	.22699	.792	-.5147	.3947
	3.00	1.00	2.00	-.34667	.22699	.132	-.8014	.1080
			4.00	.04667	.22699	.838	-.4080	.5014
		2.00	4.00	-.01333	.22699	.953	-.4680	.4414
	4.00	1.00	2.00	-.33333	.22699	.148	-.7880	.1214
			3.00	.06000	.22699	.792	-.3947	.5147
		3.00	4.00	.01333	.22699	.953	-.4414	.4680
Diameter penyebaran (cm) mingguke 2	LSD	1.00	2.00	.32000	.21731	.146	-.1153	.7553
			3.00	-.30000	.21731	.173	-.7353	.1353
		4.00	-.26000	.21731	.237	-.6953	.1753	
	2.00	1.00	3.00	-.32000	.21731	.146	-.7553	.1153
			4.00	-.62000*	.21731	.006	-1.0553	-.1847
		3.00	4.00	-.58000*	.21731	.010	-1.0153	-.1447
	3.00	1.00	2.00	.30000	.21731	.173	-.1353	.7353
			4.00	.62000*	.21731	.006	.1847	1.0553
		2.00	4.00	.04000	.21731	.855	-.3953	.4753
	4.00	1.00	2.00	.26000	.21731	.237	-.1753	.6953
			3.00	.58000*	.21731	.010	.1447	1.0153
		3.00	4.00	-.04000	.21731	.855	-.4753	.3953
Diameter penyebaran (cm) mingguke 3	LSD	1.00	2.00	.30000	.18625	.113	-.0731	.6731
			3.00	-.40667*	.18625	.033	-.7798	-.0336
		4.00	-.30000	.18625	.113	-.6731	.0731	
	2.00	1.00	3.00	-.30000	.18625	.113	-.6731	.0731
			4.00	-.70667*	.18625	.000	-1.0798	-.3336
		3.00	4.00	-.60000*	.18625	.002	-.9731	-.2269
	3.00	1.00	2.00	.40667*	.18625	.033	.0336	.7798
			4.00	.70667*	.18625	.000	.3336	1.0798
		2.00	4.00	.10667	.18625	.569	-.2664	.4798
	4.00	1.00	2.00	.30000	.18625	.113	-.0731	.6731
			3.00	.60000*	.18625	.002	.2269	.9731
		3.00	4.00	-.10667	.18625	.569	-.4798	.2664
Diameter penyebaran (cm)	LSD	1.00	2.00	.14667	.15199	.339	-.1578	.4511
		3.00	4.00	-.49333*	.15199	.002	-.7978	-.1889

mingguke 4	4.00						
	2.00	1.00	-.46000*	.15199	.004	-.7645	-.1555
		3.00	-.14667	.15199	.339	-.4511	.1578
		4.00	-.64000*	.15199	.000	-.9445	-.3355
	3.00	1.00	-.60667*	.15199	.000	-.9111	-.3022
		2.00	.49333*	.15199	.002	.1889	.7978
		4.00	.64000*	.15199	.000	.3355	.9445
	4.00	1.00	.03333	.15199	.827	-.2711	.3378
		2.00	.46000*	.15199	.004	.1555	.7645
		3.00	.60667*	.15199	.000	.3022	.9111

\*. The mean difference is significant at the 0.05 level.

### Homogeneous Subsets

#### Diameter penyebaran (cm) mingguke 0

	Formula	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	3.00	15	4.0400	
	2.00	15	4.0733	
	1.00	15	4.1400	
	4.00	15		4.6933
	Sig.		.715	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 15.000.

#### Diameter penyebaran (cm) mingguke 1

	Formula	N	Subset for alpha =
			0.05
			1
Duncan <sup>a</sup>	2.00	15	3.8733
	3.00	15	3.9200
	4.00	15	3.9333
	1.00	15	4.2667
	Sig.		.119

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 15.000.

#### Diameter penyebaran (cm) mingguke 2

	Formula	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	2.00	15	3.1467	
	1.00	15	3.4667	3.4667
	4.00	15		3.7267
	3.00	15		3.7667
	Sig.		.146	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 15.000.

**Diameter penyebaran (cm) mingguke 3**

Formula	N	Subset for alpha = 0.05			
		1	2	3	
Duncan <sup>a</sup>	2.00	15	2.8667		
	1.00	15	3.1667	3.1667	
	4.00	15		3.4667	3.4667
	3.00	15			3.5733
Sig.			.113	.113	.569

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 15.000.

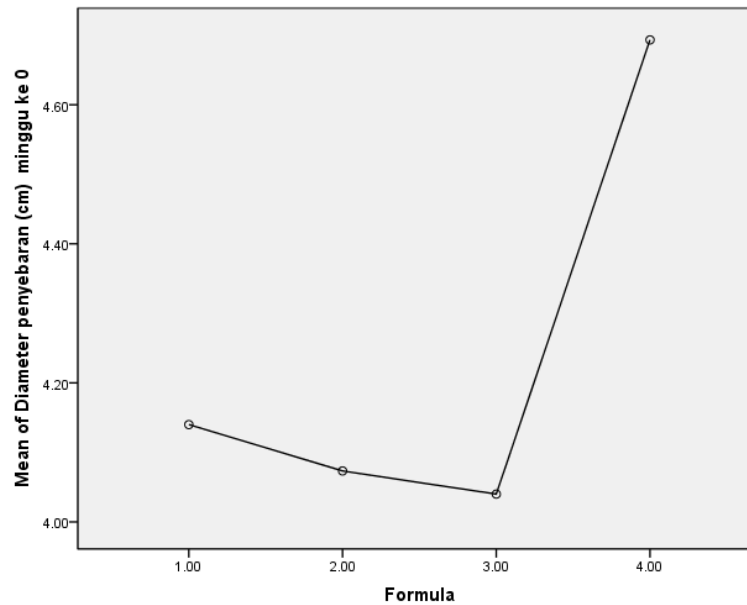
**Diameter penyebaran (cm) mingguke 4**

Formula	N	Subset for alpha = 0.05		
		1	2	
Duncan <sup>a</sup>	2.00	15	2.6533	
	1.00	15	2.8000	
	4.00	15		3.2600
	3.00	15		3.2933
Sig.			.339	.827

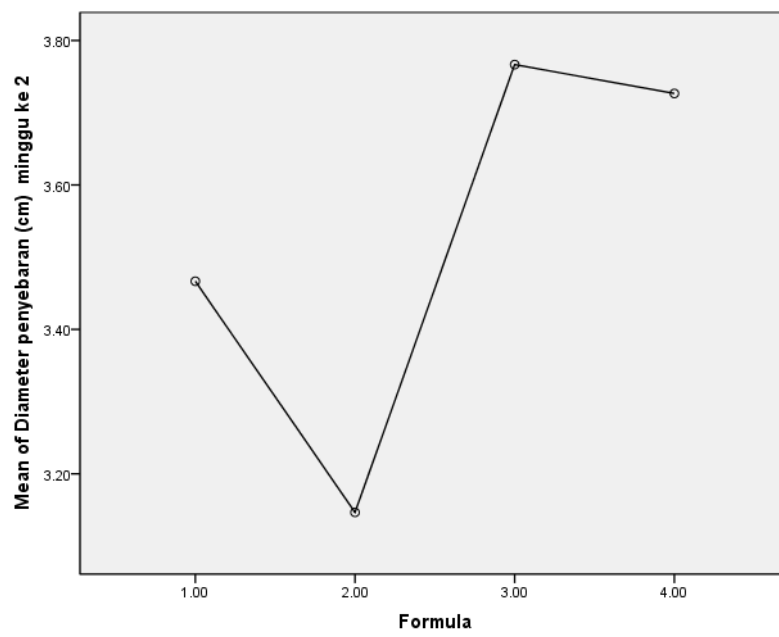
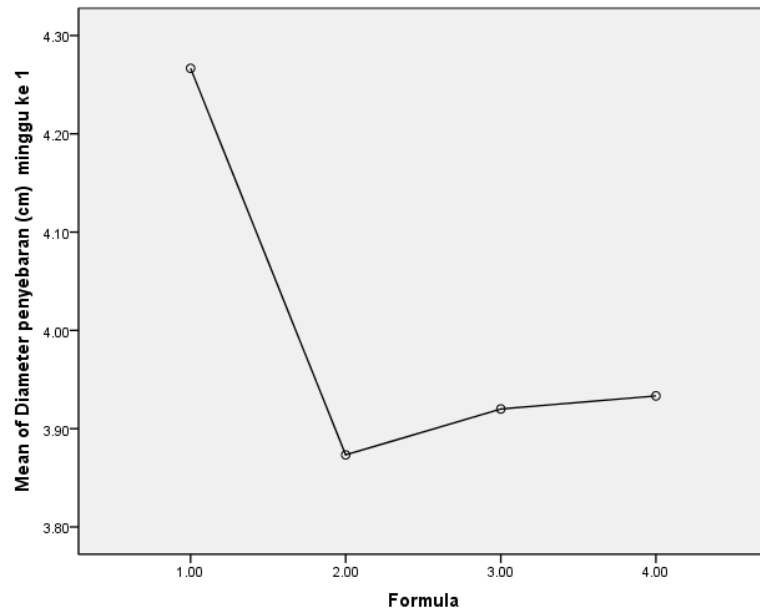
Means for groups in homogeneous subsets are displayed.

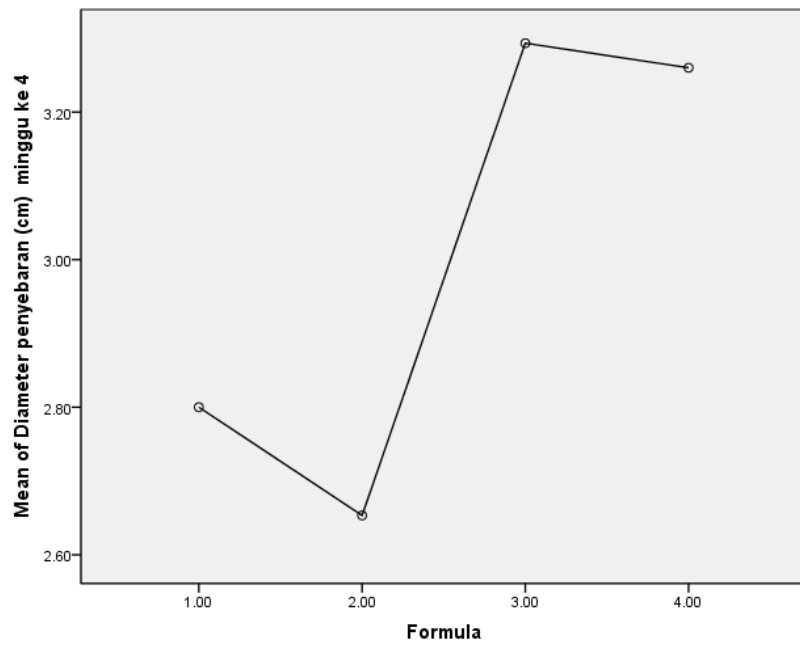
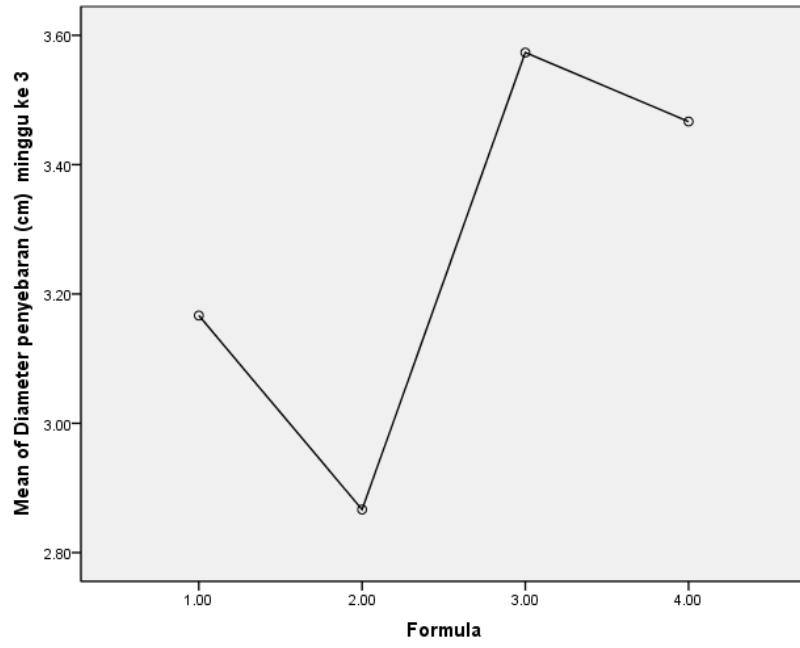
a. Uses Harmonic Mean Sample Size = 15.000.

### Means Plots









**One-Sample Kolmogorov-Smirnov Test**

		dayalekatMin ngguKe 0	dayalekatMin ngguKe 1	dayalekatMin ngguKe 2	dayalekatMin ngguKe 3	dayalekatMin ngguKe 4
N		12	12	12	12	12
Normal Parameters <sup>a,b</sup>	Mean	2.6000	2.3525	.6108	1.4350	1.4617
	Std. Deviation	1.43819	1.05823	.76525	.47283	.46442
Most Extreme Differences	Absolute	.206	.165	.295	.418	.394
	Positive	.206	.165	.295	.418	.394
	Negative	-.148	-.130	-.220	-.239	-.231
Kolmogorov-Smirnov Z		.714	.571	1.022	1.447	1.365
Asymp. Sig. (2-tailed)		.688	.900	.247	.130	.055

a. Test distribution is Normal.  
 b. Calculated from data.

**Oneway**

**Descriptives**

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	Between-Component Variance
						Lower Bound	Upper Bound			
dayalekatMin ngguKe 0	1.00	3	3.0533	1.96118	1.13229	-1.8185	7.9252	1.45	5.24	
	2.00	3	3.3767	2.02080	1.16671	-1.6433	8.3966	1.45	5.48	
	3.00	3	2.0800	.95142	.54930	-.2835	4.4435	1.10	3.00	
	4.00	3	1.8900	.40780	.23544	.8770	2.9030	1.42	2.15	
	Total	12	2.6000	1.43819	.41517	1.6862	3.5138	1.10	5.48	
	Model			1.50011	.43305	1.6014	3.5986			
	Fixed Effects									
	Random Effects				.43305 <sup>a</sup>	1.2219 <sup>a</sup>	3.9781 <sup>a</sup>			-.22237
dayalekatMin ngguKe 1	1.00	3	3.2633	.89918	.51914	1.0296	5.4970	2.49	4.25	
	2.00	3	2.9800	1.12468	.64933	.1861	5.7739	2.11	4.25	
	3.00	3	1.2533	.20526	.11851	.7434	1.7632	1.08	1.48	
	4.00	3	1.9133	.32716	.18889	1.1006	2.7260	1.54	2.15	
	Total	12	2.3525	1.05823	.30549	1.6801	3.0249	1.08	4.25	
	Model			.74542	.21518	1.8563	2.8487			
	Fixed Effects									
	Random Effects				.46765	.8642	3.8408			.68959
dayalekatMin ngguKe 2	1.00	3	1.2467	1.15036	.66416	-1.6110	4.1043	.08	2.38	
	2.00	3	.1633	.07234	.04177	-.0164	.3430	.08	.21	
	3.00	3	.0533	.03055	.01764	-.0226	.1292	.02	.08	
	4.00	3	.9800	.56027	.32347	-.4118	2.3718	.36	1.45	
	Total	12	.6108	.76525	.22091	.1246	1.0971	.02	2.38	
	Model			.64098	.18503	.1841	1.0375			
	Fixed Effects									
	Random Effects				.29603	-.3313	1.5529			.21359
dayalekatMin	1.00	3	1.1667	.02887	.01667	1.0950	1.2384	1.15	1.20	

gguKe 3	2.00	3	1.1467	.05033	.02906	1.0216	1.2717	1.10	1.20	
	3.00	3	2.2167	.02887	.01667	2.1450	2.2884	2.20	2.25	
	4.00	3	1.2100	.01732	.01000	1.1670	1.2530	1.20	1.23	
	Total	12	1.4350	.47283	.13650	1.1346	1.7354	1.10	2.25	
	Model	Fixed Effects			.03354	.00968	1.4127	1.4573		
	Random Effects				.26089	.6047	2.2653			.27188
dayalekatMin gguKe 4	1.00	3	1.2400	.07810	.04509	1.0460	1.4340	1.15	1.29	
	2.00	3	1.1500	.03000	.01732	1.0755	1.2245	1.12	1.18	
	3.00	3	2.2267	.03786	.02186	2.1326	2.3207	2.20	2.27	
	4.00	3	1.2300	.01000	.00577	1.2052	1.2548	1.22	1.24	
	Total	12	1.4617	.46442	.13407	1.1666	1.7567	1.12	2.27	
Model	Fixed Effects			.04619	.01333	1.4309	1.4924			
	Random Effects				.25579	.6476	2.2757			.26101

a. Warning: Between-component variance is negative. It was replaced by 0.0 in computing this random effects measure.

#### Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
dayalekatMingguKe 0	1.840	3	8	.218
dayalekatMingguKe 1	3.530	3	8	.068
dayalekatMingguKe 2	3.178	3	8	.085
dayalekatMingguKe 3	1.177	3	8	.377
dayalekatMingguKe 4	5.073	3	8	.029

#### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
dayalekatMingguKe 0	Between Groups	4.750	3	1.583	.704	.576
	Within Groups	18.003	8	2.250		
	Total	22.752	11			
dayalekatMingguKe 1	Between Groups	7.873	3	2.624	4.723	.035
	Within Groups	4.445	8	.556		
	Total	12.318	11			
dayalekatMingguKe 2	Between Groups	3.155	3	1.052	2.560	.128
	Within Groups	3.287	8	.411		
	Total	6.442	11			
dayalekatMingguKe 3	Between Groups	2.450	3	.817	726.015	.000
	Within Groups	.009	8	.001		
	Total	2.459	11			
dayalekatMingguKe 4	Between Groups	2.356	3	.785	368.047	.000
	Within Groups	.017	8	.002		
	Total	2.373	11			

#### Post Hoc Tests

## Multiple Comparisons

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval		
						Lower Bound	Upper Bound	
dayalekatMin gguKe 0	LSD	1.00	2.00	-.32333	1.22484	.798	-3.1478	2.5011
		3.00		.97333	1.22484	.450	-1.8511	3.7978
		4.00		1.16333	1.22484	.370	-1.6611	3.9878
	2.00	1.00		.32333	1.22484	.798	-2.5011	3.1478
		3.00		1.29667	1.22484	.321	-1.5278	4.1211
		4.00		1.48667	1.22484	.259	-1.3378	4.3111
	3.00	1.00		-.97333	1.22484	.450	-3.7978	1.8511
		2.00		-1.29667	1.22484	.321	-4.1211	1.5278
		4.00		.19000	1.22484	.881	-2.6345	3.0145
	4.00	1.00		-1.16333	1.22484	.370	-3.9878	1.6611
		2.00		-1.48667	1.22484	.259	-4.3111	1.3378
		3.00		-.19000	1.22484	.881	-3.0145	2.6345
dayalekatMin gguKe 1	LSD	1.00	2.00	.28333	.60863	.654	-1.1202	1.6868
		3.00		2.01000*	.60863	.011	.6065	3.4135
		4.00		1.35000	.60863	.057	-.0535	2.7535
	2.00	1.00		-.28333	.60863	.654	-1.6868	1.1202
		3.00		1.72667*	.60863	.022	.3232	3.1302
		4.00		1.06667	.60863	.118	-.3368	2.4702
	3.00	1.00		-2.01000*	.60863	.011	-3.4135	-.6065
		2.00		-1.72667*	.60863	.022	-3.1302	-.3232
		4.00		-.66000	.60863	.310	-2.0635	.7435
	4.00	1.00		-1.35000	.60863	.057	-2.7535	.0535
		2.00		-1.06667	.60863	.118	-2.4702	.3368
		3.00		.66000	.60863	.310	-.7435	2.0635
dayalekatMin gguKe 2	LSD	1.00	2.00	1.08333	.52335	.072	-.1235	2.2902
		3.00		1.19333	.52335	.052	-.0135	2.4002
		4.00		.26667	.52335	.624	-.9402	1.4735
	2.00	1.00		-1.08333	.52335	.072	-2.2902	.1235
		3.00		.11000	.52335	.839	-1.0969	1.3169
		4.00		-.81667	.52335	.157	-2.0235	.3902
	3.00	1.00		-1.19333	.52335	.052	-2.4002	.0135
		2.00		-.11000	.52335	.839	-1.3169	1.0969
		4.00		-.92667	.52335	.115	-2.1335	.2802
	4.00	1.00		-.26667	.52335	.624	-1.4735	.9402
		2.00		.81667	.52335	.157	-.3902	2.0235
		3.00		.92667	.52335	.115	-.2802	2.1335
dayalekatMin gguKe 3	LSD	1.00	2.00	.02000	.02739	.486	-.0432	.0832
		3.00		-1.05000*	.02739	.000	-1.1132	-.9868
		4.00		-.04333	.02739	.152	-1.065	.0198
	2.00	1.00		-.02000	.02739	.486	-.0832	.0432
		3.00		-1.07000*	.02739	.000	-1.1332	-1.0068
		4.00		-.06333*	.02739	.049	-.1265	-.0002
	3.00	1.00		1.05000*	.02739	.000	.9868	1.1132
		2.00		1.07000*	.02739	.000	1.0068	1.1332
		4.00		1.00667*	.02739	.000	.9435	1.0698
	4.00	1.00		.04333	.02739	.152	-.0198	.1065
		2.00		.06333*	.02739	.049	.0002	.1265
		3.00		-1.00667*	.02739	.000	-1.0698	-.9435
dayalekatMin gguKe 4	LSD	1.00	2.00	.09000*	.03771	.044	.0030	.1770
		3.00		-.98667*	.03771	.000	-1.0736	-.8997
		4.00		.01000	.03771	.798	-.0770	.0970
	2.00	1.00		-.09000*	.03771	.044	-1.1770	-.0030

	3.00	-1.07667*	.03771	.000	-1.1636	-.9897
	4.00	-.08000	.03771	.067	-.1670	.0070
3.00	1.00	.98667*	.03771	.000	.8997	1.0736
	2.00	1.07667*	.03771	.000	.9897	1.1636
	4.00	.99667*	.03771	.000	.9097	1.0836
4.00	1.00	-.01000	.03771	.798	-.0970	.0770
	2.00	.08000	.03771	.067	-.0070	.1670
	3.00	-.99667*	.03771	.000	-1.0836	-.9097

\*. The mean difference is significant at the 0.05 level.

### Homogeneous Subsets

#### dayalekatMingguKe 0

Formula	N	Subset for alpha = 0.05	
		1	
Duncan <sup>a</sup>			
4.00	3	1.8900	
3.00	3	2.0800	
1.00	3	3.0533	
2.00	3	3.3767	
Sig.		.286	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

#### dayalekatMingguKe 1

Formula	N	Subset for alpha = 0.05	
		1	2
Duncan <sup>a</sup>			
3.00	3	1.2533	
4.00	3	1.9133	1.9133
2.00	3		2.9800
1.00	3		3.2633
Sig.		.310	.066

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

#### dayalekatMingguKe 2

Formula	N	Subset for alpha = 0.05	
		1	
Duncan <sup>a</sup>			
3.00	3	.0533	
2.00	3	.1633	
4.00	3	.9800	
1.00	3	1.2467	
Sig.		.065	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

#### dayalekatMingguKe 3

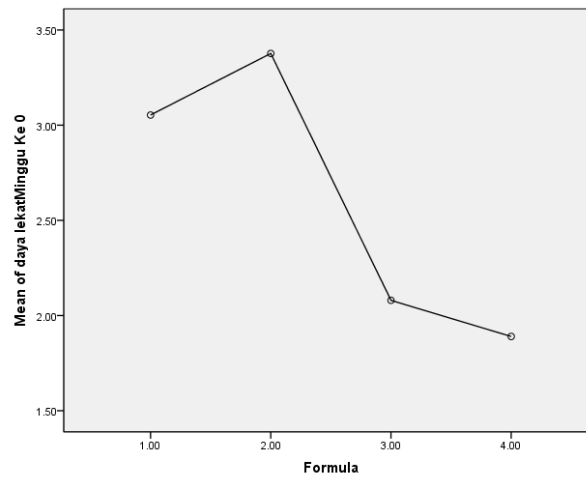
Formula	N	Subset for alpha = 0.05	
		1	2
Duncan <sup>a</sup>	2.00	3	1.1467
	1.00	3	1.1667
	4.00	3	1.2100
	3.00	3	2.2167
Sig.			.057
			1.000

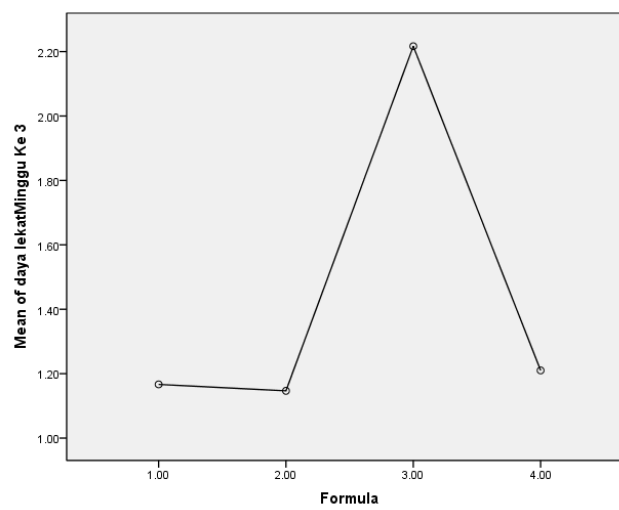
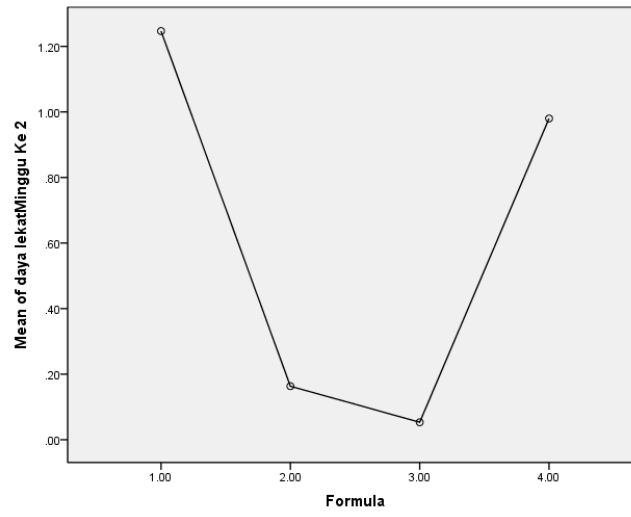
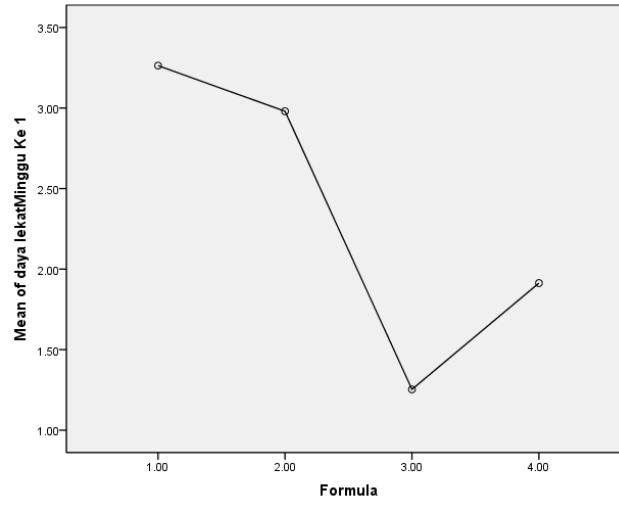
Means for groups in homogeneous subsets are displayed.  
 a. Uses Harmonic Mean Sample Size = 3.000.

**dayalekatMingguKe 4**

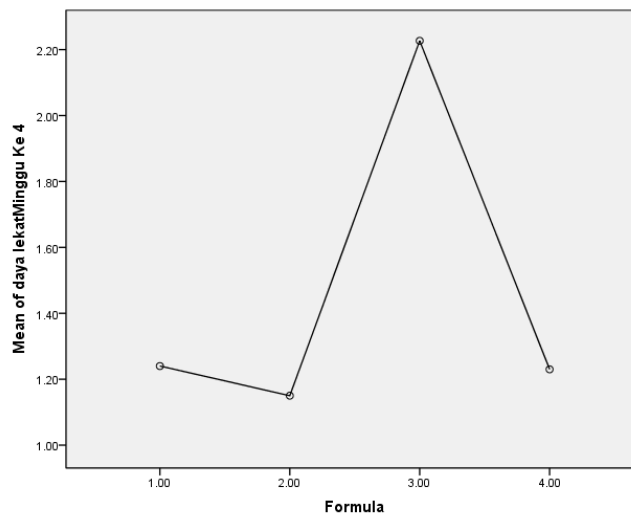
Formula	N	Subset for alpha = 0.05	
		1	2
Duncan <sup>a</sup>	2.00	3	1.1500
	4.00	3	1.2300
	1.00	3	1.2400
	3.00	3	2.2267
Sig.			.051
			1.000

Means for groups in homogeneous subsets are displayed.  
 a. Uses Harmonic Mean Sample Size = 3.000.









### One-Sample Kolmogorov-Smirnov Test

		ViskositasMingguke 1	ViskositasMingguke 2	ViskositasMingguke 3	ViskositasMingguke 4
N		12	12	12	12
Normal Parameters <sup>a,b</sup>	Mean	184.1667	219.1667	224.1667	207.9167
	Std. Deviation	51.95423	33.96745	33.69875	49.70176
Most Extreme Differences	Absolute	.179	.273	.246	.213
	Positive	.179	.273	.246	.213
	Negative	-.147	-.195	-.163	-.177
Kolmogorov-Smirnov Z		.620	.946	.853	.737
Asymp. Sig. (2-tailed)		.836	.333	.461	.649

a. Test distribution is Normal.

b. Calculated from data.

### Oneway

#### Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	Between-Component Variance
						Lower Bound	Upper Bound			
						ViskositasMingguke 1	1.00			
	2.00	3	253.3333	5.77350	3.33333	238.9912	267.6755	250.00	260.00	
	3.00	3	206.6667	5.77350	3.33333	192.3245	221.0088	200.00	210.00	
	4.00	3	130.0000	10.00000	5.77350	105.1586	154.8414	120.00	140.00	
Total		12	184.1667	51.95423	14.99790	151.1565	217.1768	120.00	260.00	
Model	Fixed Effects			10.00000	2.88675	177.5098	190.8235			
	Random Effects				28.32925	94.0104	274.3230			
ViskositasMingguke 2	1.00	3	200.0000	10.00000	5.77350	175.1586	224.8414	190.00	210.00	1328.70370
	2.00	3	273.3333	5.77350	3.33333	258.9912	287.6755	270.00	280.00	
	3.00	3	210.0000	10.00000	5.77350	185.1586	234.8414	200.00	220.00	
	4.00	3	193.3333	5.77350	3.33333	178.9912	207.6755	190.00	200.00	
Total		12	219.1667	33.96745	9.80556	197.5848	240.7486	190.00	280.00	
Model	Fixed Effects			8.16497	2.35702	213.7314	224.6020			
	Random Effects				18.37747	160.6813	277.6520			

ViskositasMingguke 3	1.00	3	206.6667	5.77350	3.33333	192.3245	221.0088	200.00	210.00	
	2.00	3	276.6667	5.77350	3.33333	262.3245	291.0088	270.00	280.00	
	3.00	3	220.0000	10.00000	5.77350	195.1586	244.8414	210.00	230.00	
	4.00	3	193.3333	5.77350	3.33333	178.9912	207.6755	190.00	200.00	
	Total	12	224.1667	33.69875	9.72799	202.7555	245.5778	190.00	280.00	
	Model	Fixed Effects		7.07107	2.04124	219.4596	228.8738			
	Random Effects			18.32702	165.8419	282.4914			1326.85185	
ViskositasMingguke 4	1.00	3	163.3333	5.77350	3.33333	148.9912	177.6755	160.00	170.00	
	2.00	3	281.6667	2.88675	1.66667	274.4956	288.8378	280.00	285.00	
	3.00	3	216.6667	5.77350	3.33333	202.3245	231.0088	210.00	220.00	
	4.00	3	170.0000	10.00000	5.77350	145.1586	194.8414	160.00	180.00	
	Total	12	207.9167	49.70176	14.34766	176.3377	239.4957	160.00	285.00	
	Model	Fixed Effects		6.61438	1.90941	203.5136	212.3198			
	Random Effects			27.29617	121.0481	294.7853			2965.74074	

#### Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
ViskositasMingguke 1	1.333	3	8	.330
ViskositasMingguke 2	.267	3	8	.848
ViskositasMingguke 3	.333	3	8	.802
ViskositasMingguke 4	.948	3	8	.462

#### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
ViskositasMingguke 1	Between Groups	28891.667	3	9630.556	96.306	.000
	Within Groups	800.000	8	100.000		
	Total	29691.667	11			
ViskositasMingguke 2	Between Groups	12158.333	3	4052.778	60.792	.000
	Within Groups	533.333	8	66.667		
	Total	12691.667	11			
ViskositasMingguke 3	Between Groups	12091.667	3	4030.556	80.611	.000
	Within Groups	400.000	8	50.000		
	Total	12491.667	11			
ViskositasMingguke 4	Between Groups	26822.917	3	8940.972	204.365	.000
	Within Groups	350.000	8	43.750		
	Total	27172.917	11			

## Post Hoc Tests

## Multiple Comparisons

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval			
						Lower Bound	Upper Bound		
Viskositas Minggu ke 1	LSD	1.00	2.00	-106.66667 <sup>*</sup>	8.16497	.000	-125.4951	-87.8382	
		3.00		-60.00000 <sup>*</sup>	8.16497	.000	-78.8284	-41.1716	
		4.00		16.66667	8.16497	.076	-2.1618	35.4951	
		2.00	1.00		106.66667 <sup>*</sup>	8.16497	.000	87.8382	125.4951
	3.00			46.66667 <sup>*</sup>	8.16497	.000	27.8382	65.4951	
	4.00			123.33333 <sup>*</sup>	8.16497	.000	104.5049	142.1618	
		3.00	1.00		60.00000 <sup>*</sup>	8.16497	.000	41.1716	78.8284
	2.00			-46.66667 <sup>*</sup>	8.16497	.000	-65.4951	-27.8382	
	4.00			76.66667 <sup>*</sup>	8.16497	.000	57.8382	95.4951	
		4.00	1.00		-16.66667	8.16497	.076	-35.4951	2.1618
	2.00			-123.33333 <sup>*</sup>	8.16497	.000	-142.1618	-104.5049	
	3.00			-76.66667 <sup>*</sup>	8.16497	.000	-95.4951	-57.8382	
Viskositas Minggu ke 2	LSD	1.00	2.00	-73.33333 <sup>*</sup>	6.66667	.000	-88.7067	-57.9600	
		3.00		-10.00000	6.66667	.172	-25.3734	5.3734	
		4.00		6.66667	6.66667	.347	-8.7067	22.0400	
		2.00	1.00		73.33333 <sup>*</sup>	6.66667	.000	57.9600	88.7067
	3.00			63.33333 <sup>*</sup>	6.66667	.000	47.9600	78.7067	
	4.00			80.00000 <sup>*</sup>	6.66667	.000	64.6266	95.3734	
		3.00	1.00		10.00000	6.66667	.172	-5.3734	25.3734
	2.00			-63.33333 <sup>*</sup>	6.66667	.000	-78.7067	-47.9600	
	4.00			16.66667 <sup>*</sup>	6.66667	.037	1.2933	32.0400	
		4.00	1.00		-6.66667	6.66667	.347	-22.0400	8.7067
	2.00			-80.00000 <sup>*</sup>	6.66667	.000	-95.3734	-64.6266	
	3.00			-16.66667 <sup>*</sup>	6.66667	.037	-32.0400	-1.2933	
Viskositas Minggu ke 3	LSD	1.00	2.00	-70.00000 <sup>*</sup>	5.77350	.000	-83.3137	-56.6863	
		3.00		-13.33333 <sup>*</sup>	5.77350	.050	-26.6471	-.0196	
		4.00		13.33333 <sup>*</sup>	5.77350	.050	.0196	26.6471	
		2.00	1.00		70.00000 <sup>*</sup>	5.77350	.000	56.6863	83.3137
	3.00			56.66667 <sup>*</sup>	5.77350	.000	43.3529	69.9804	
	4.00			83.33333 <sup>*</sup>	5.77350	.000	70.0196	96.6471	
		3.00	1.00		13.33333 <sup>*</sup>	5.77350	.050	.0196	26.6471
	2.00			-56.66667 <sup>*</sup>	5.77350	.000	-69.9804	-43.3529	
	4.00			26.66667 <sup>*</sup>	5.77350	.002	13.3529	39.9804	
		4.00	1.00		-13.33333 <sup>*</sup>	5.77350	.050	-26.6471	-.0196
	2.00			-83.33333 <sup>*</sup>	5.77350	.000	-96.6471	-70.0196	
	3.00			-26.66667 <sup>*</sup>	5.77350	.002	-39.9804	-13.3529	
Viskositas Minggu ke 4	LSD	1.00	2.00	-118.33333 <sup>*</sup>	5.40062	.000	-130.7872	-105.8795	
		3.00		-53.33333 <sup>*</sup>	5.40062	.000	-65.7872	-40.8795	
		4.00		-6.66667	5.40062	.252	-19.1205	5.7872	
		2.00	1.00		118.33333 <sup>*</sup>	5.40062	.000	105.8795	130.7872
	3.00			65.00000 <sup>*</sup>	5.40062	.000	52.5462	77.4538	
	4.00			111.66667 <sup>*</sup>	5.40062	.000	99.2128	124.1205	
		3.00	1.00		53.33333 <sup>*</sup>	5.40062	.000	40.8795	65.7872
	2.00			-65.00000 <sup>*</sup>	5.40062	.000	-77.4538	-52.5462	
	4.00			46.66667 <sup>*</sup>	5.40062	.000	34.2128	59.1205	
		4.00	1.00		6.66667	5.40062	.252	-5.7872	19.1205
	2.00			-111.66667 <sup>*</sup>	5.40062	.000	-124.1205	-99.2128	
	3.00			-46.66667 <sup>*</sup>	5.40062	.000	-59.1205	-34.2128	

\*. The mean difference is significant at the 0.05 level.

**Homogeneous Subsets****ViskositasMingguke 1**

Formula	N	Subset for alpha = 0.05		
		1	2	3
Duncan <sup>a</sup> 4.00	3	130.0000		
1.00	3	146.6667		
3.00	3		206.6667	
2.00	3			253.3333
Sig.		.076	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**ViskositasMingguke 2**

Formula	N	Subset for alpha = 0.05		
		1	2	3
Duncan <sup>a</sup> 4.00	3	193.3333		
1.00	3	200.0000	200.0000	
3.00	3		210.0000	
2.00	3			273.3333
Sig.		.347	.172	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**ViskositasMingguke 3**

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
Duncan <sup>a</sup> 4.00	3	193.3333			
1.00	3		206.6667		
3.00	3			220.0000	
2.00	3				276.6667
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**ViskositasMingguke 4**

Formula	N	Subset for alpha = 0.05		
		1	2	3
Duncan <sup>a</sup> 1.00	3	163.3333		
4.00	3	170.0000		
3.00	3		216.6667	
2.00	3			281.6667
Sig.		.252	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Means Plots**