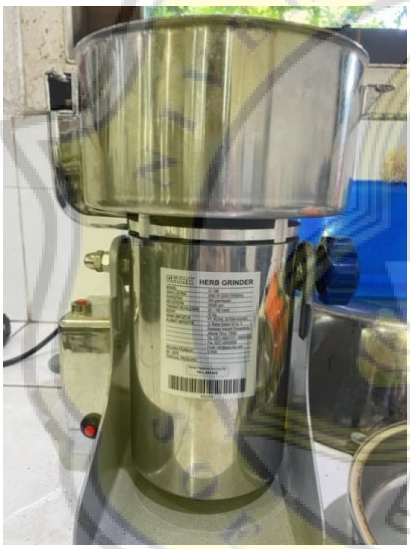
7. LAMPIRAN

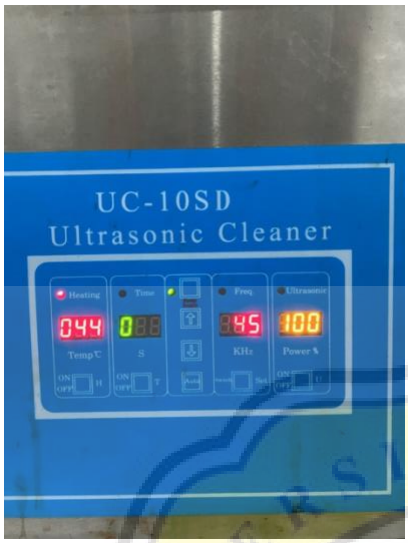
Lampiran 1. Biji Pala

Lampiran 2. *Herbs Grinder*

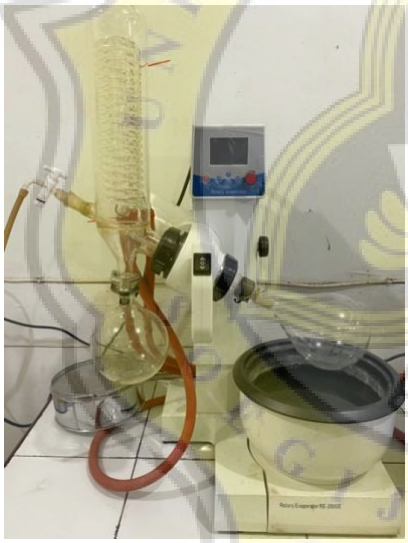


Lampiran 3. Bubuk Biji Pala Kering

Lampiran 4. *Ultrasonic Cleaner UC-10SD*



Lampiran 5. *Vacuum Rotary Evaprator*

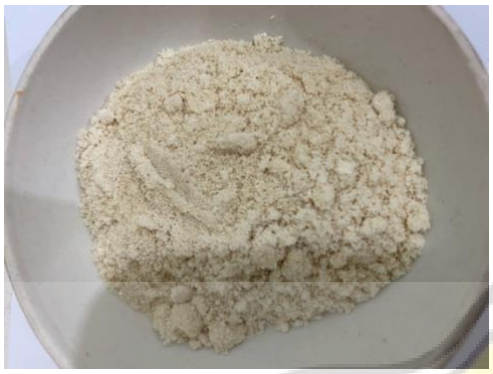


Lampiran 6. Oleoresin Biji Pala

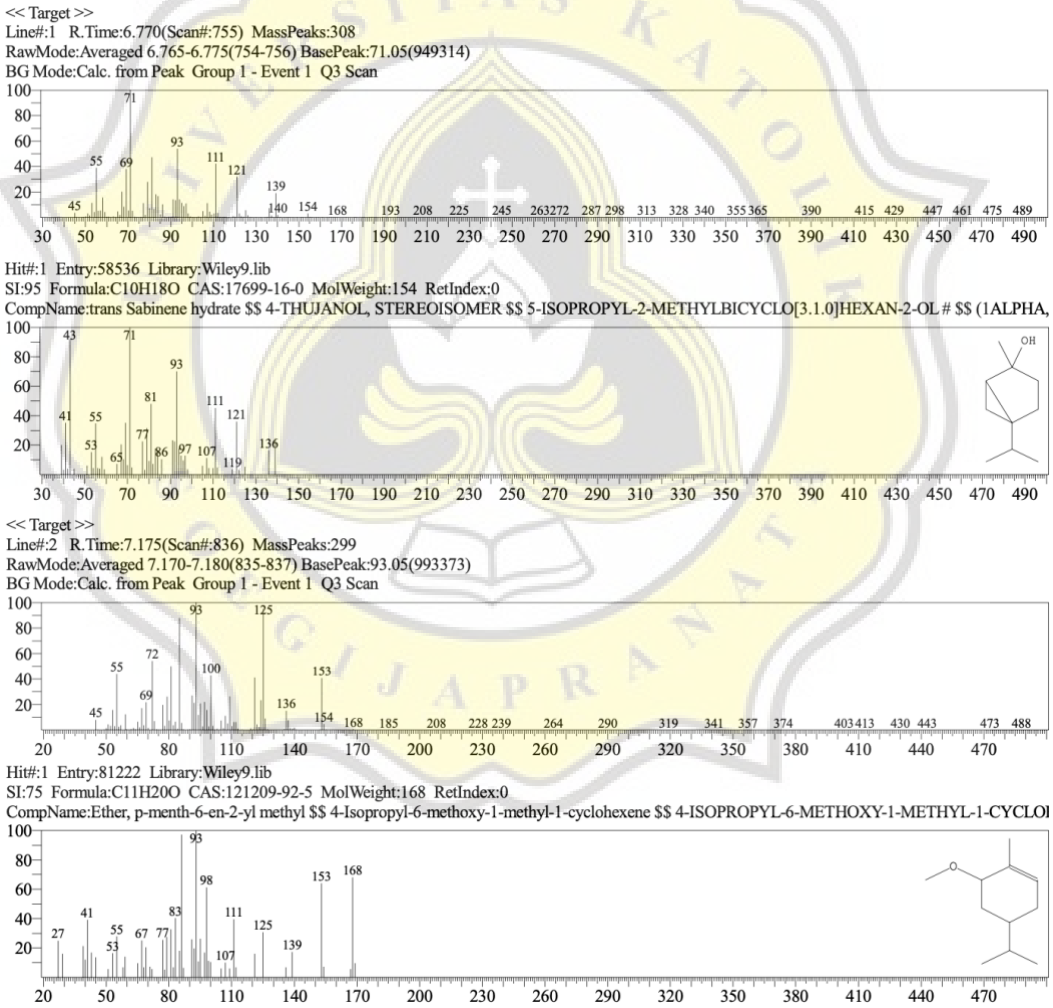
Lampiran 7. Enkapsulat Oleoresin Biji Pala Setelah Pengeringan

Lampiran 8. Proses Penghalusan Enkapsulat Oleoresin Biji Pala

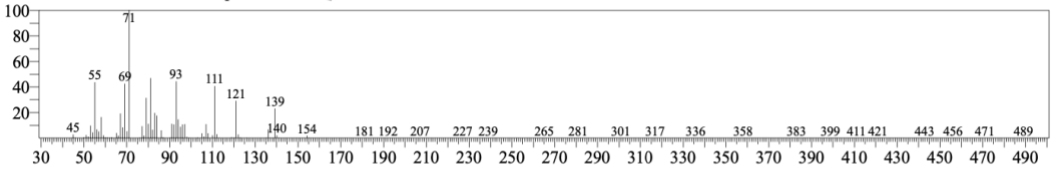
Lampiran 9. Serbuk Enkapsulat Oleoresin Biji Pala Setelah



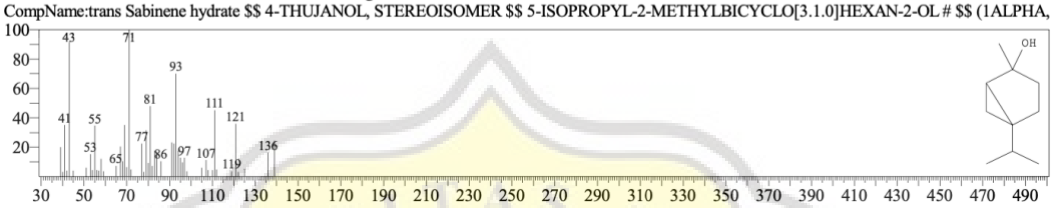
Lampiran 10. Hasil *Peak* GC-MS Ekstrak Oleoresin Biji Pala



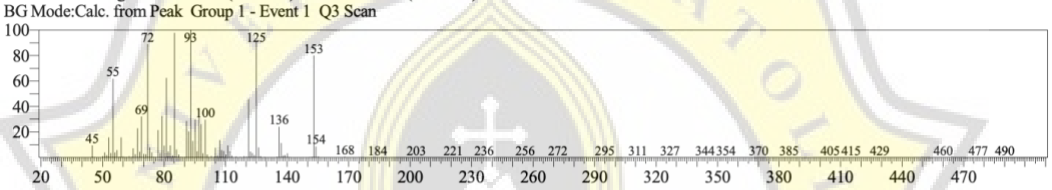
<< Target >>
Line#:3 R.Time:7.330(Scan#:867) MassPeaks:249
RawMode:Averaged 7.325-7.335(866-868) BasePeak:71.05(1555068)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



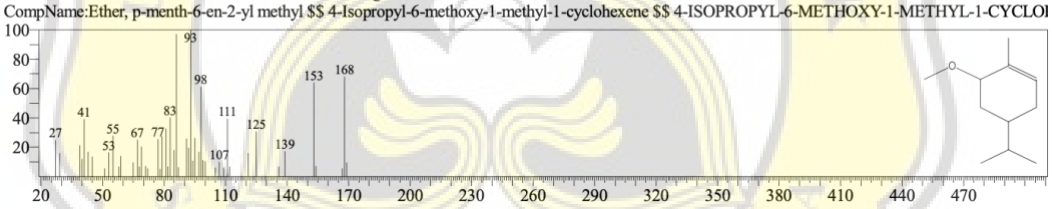
Hit#:1 Entry:58536 Library:Wiley9.lib
SI:93 Formula:C10H18O CAS:17699-16-0 MolWeight:154 RetIndex:0
CompName:trans Sabinene hydrate $$ 4-THUJANOL, STEREOISOMER $$ 5-ISOPROPYL-2-METHYLBICYCLO[3.1.0]HEXAN-2-OL # $$ (1ALPHA,



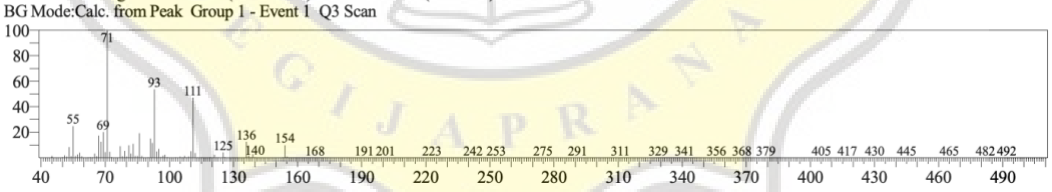
<< Target >>
Line#:4 R.Time:7.615(Scan#:924) MassPeaks:273
RawMode:Averaged 7.610-7.620(923-925) BasePeak:93.05(1077223)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



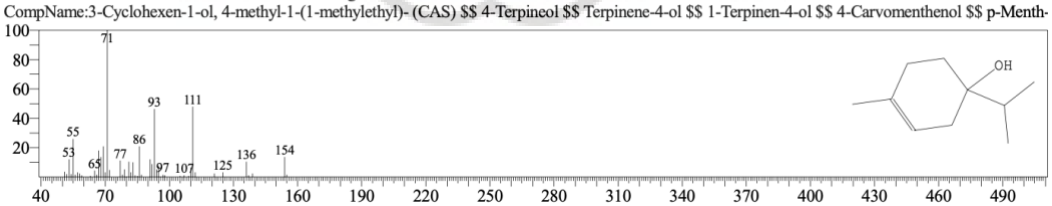
Hit#:1 Entry:81222 Library:Wiley9.lib
SI:76 Formula:C11H20O CAS:121209-92-5 MolWeight:168 RetIndex:0
CompName:Ether, p-menth-6-en-2-yl methyl $$ 4-Isopropyl-6-methoxy-1-methyl-1-cyclohexene $$ 4-ISOPROPYL-6-METHOXY-1-METHYL-1-CYCLOI



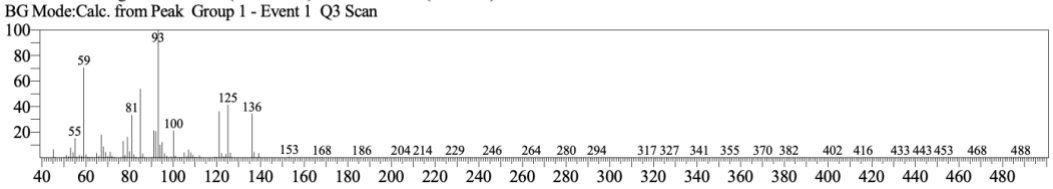
<< Target >>
Line#:5 R.Time:9.065(Scan#:1214) MassPeaks:283
RawMode:Averaged 9.060-9.070(1213-1215) BasePeak:71.05(6232842)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



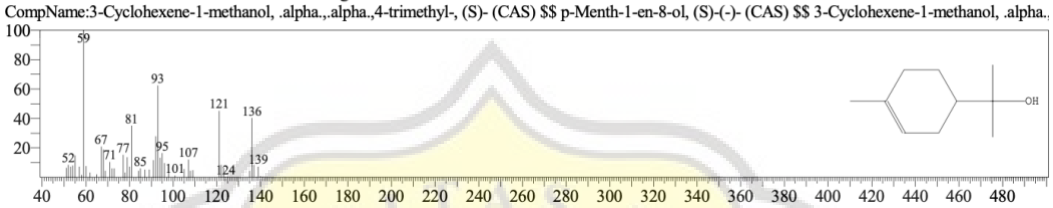
Hit#:1 Entry:58082 Library:Wiley9.lib
SI:97 Formula:C10H18O CAS:562-74-3 MolWeight:154 RetIndex:0
CompName:3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)- (CAS) $$ 4-Terpineol $$ Terpinene-4-ol $$ 1-Terpinen-4-ol $$ 4-Carvomenthenol $$ p-Menth-



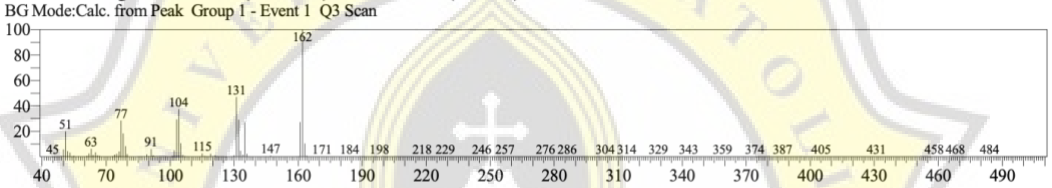
<< Target >>
Line#:6 R.Time:9.370(Scan#:1275) MassPeaks:255
RawMode:Averaged 9.365-9.375(1274-1276) BasePeak:93.05(1753688)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



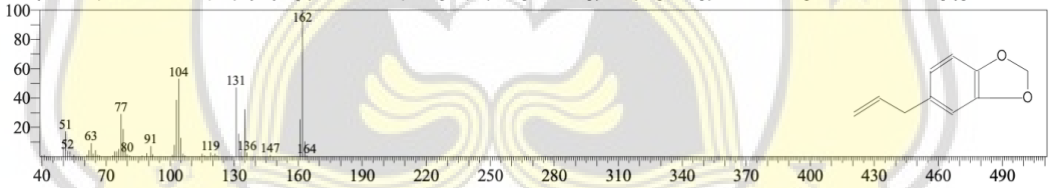
Hit#:1 Entry:58115 Library:Wiley9.lib
SI:82 Formula:C10H18O CAS:98-55-5 MolWeight:154 RetIndex:0
CompName:3-Cyclohexene-1-methanol, .alpha.,.alpha.,4-trimethyl-, (S)- (CAS) $$ p-Menth-1-en-8-ol, (S)-(-)- (CAS) $$ 3-Cyclohexene-1-methanol, .alpha.,



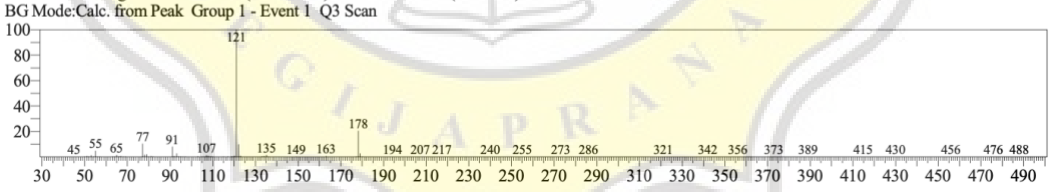
<< Target >>
Line#:7 R.Time:11.910(Scan#:1783) MassPeaks:254
RawMode:Averaged 11.905-11.915(1782-1784) BasePeak:162.05(5507062)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



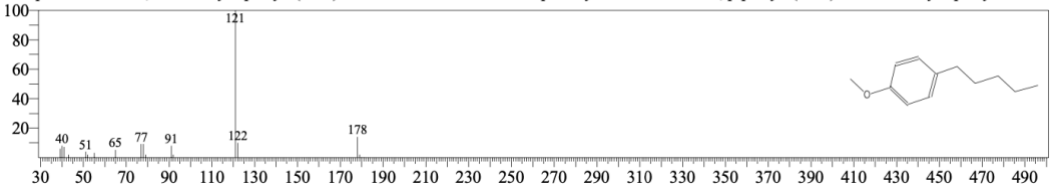
Hit#:1 Entry:10797 Library:NIST08s.LIB
SI:95 Formula:C10H10O2 CAS:94-59-7 MolWeight:162 RetIndex:1327
CompName:1,3-Benzodioxole, 5-(2-propenyl)- $$ Benzene, 4-allyl-1,2-(methylenedioxy)- $$ (Allyldioxy)benzene methylene ether $$ m-Allylpyrocatechin r



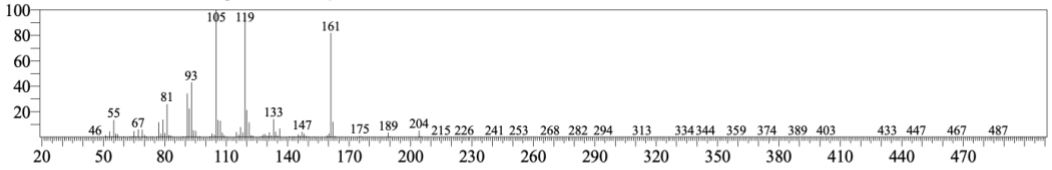
<< Target >>
Line#:8 R.Time:12.175(Scan#:1836) MassPeaks:243
RawMode:Averaged 12.170-12.180(1835-1837) BasePeak:121.05(4594454)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



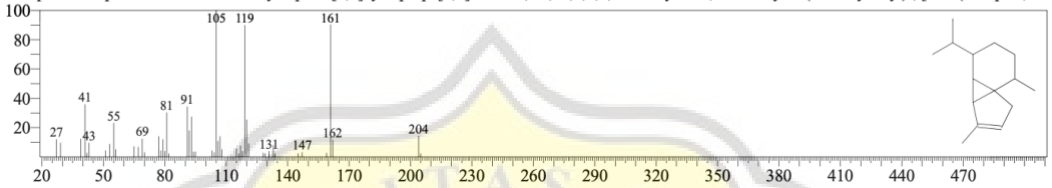
Hit#:1 Entry:98195 Library:Wiley9.lib
SI:91 Formula:C12H18O CAS:20056-58-0 MolWeight:178 RetIndex:0
CompName:Benzene, 1-methoxy-4-pentyl- (CAS) $$ P-N-AMYLANISOLE $$ p-Pentylanisole $$ Anisole, p-pentyl- (CAS) $$ 1-Methoxy-4-pentylbenzene



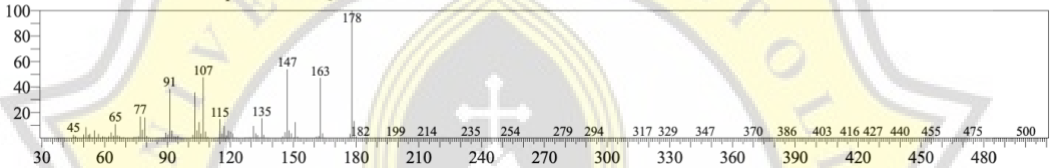
<< Target >>
Line#:9 R.Time:14.055(Scan#:2212) MassPeaks:276
RawMode:Averaged 14.050-14.060(2211-2213) BasePeak:105.05(658707)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



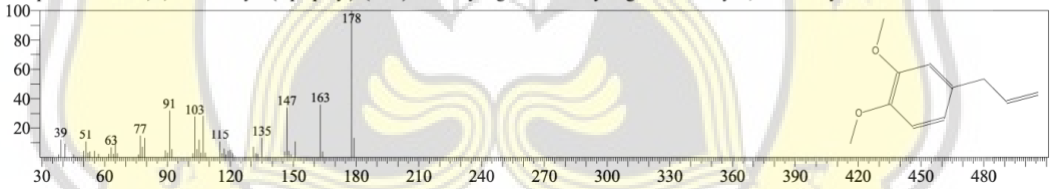
Hit#:1 Entry:17125 Library:NIST08s.LIB
SI:93 Formula:C15H24 CAS:17699-14-8 MolWeight:204 RetIndex:1344
CompName:.alpha.-Cubebene $$ 1H-Cyclopenta[1,3]cyclopropa[1,2]benzene, 3a,3b,4,5,6,7-hexahydro-3,7-dimethyl-4-(1-methylethyl)-, [3aS-(3a.alpha.,3b.



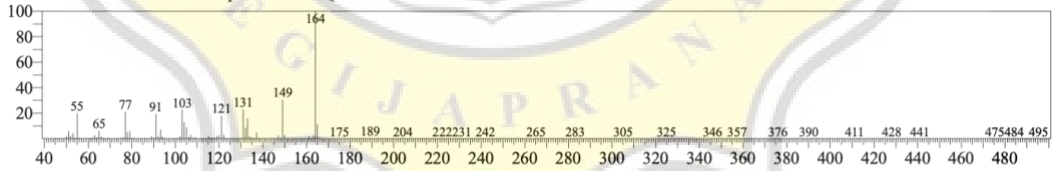
<< Target >>
Line#:10 R.Time:15.105(Scan#:2422) MassPeaks:329
RawMode:Averaged 15.100-15.110(2421-2423) BasePeak:178.05(7494423)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



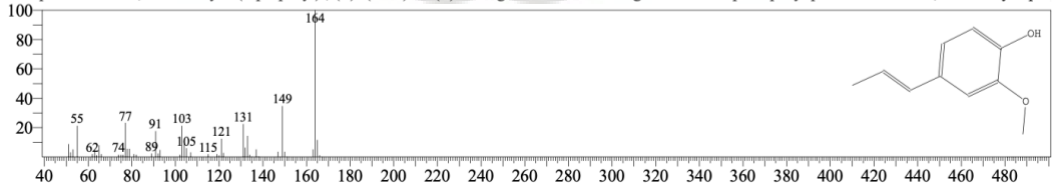
Hit#:1 Entry:97477 Library:Wiley9.lib
SI:94 Formula:C11H14O2 CAS:93-15-2 MolWeight:178 RetIndex:0
CompName:Benzene, 1,2-dimethoxy-4-(2-propenyl)- (CAS) $$ Methyleugenol $$ Methyl eugenol $$ 1-Allyl-3,4-dimethoxybenzene $$ Ent 21040 $$ O-Me



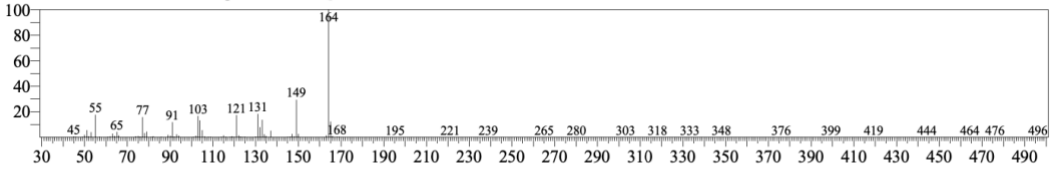
<< Target >>
Line#:11 R.Time:15.225(Scan#:2446) MassPeaks:275
RawMode:Averaged 15.220-15.230(2445-2447) BasePeak:164.05(2979689)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



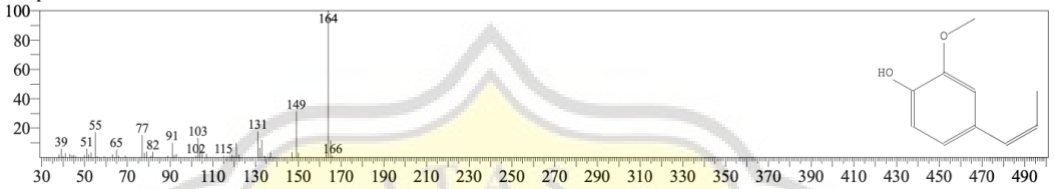
Hit#:1 Entry:72291 Library:Wiley9.lib
SI:95 Formula:C10H12O2 CAS:5932-68-3 MolWeight:164 RetIndex:0
CompName:Phenol, 2-methoxy-4-(1-propenyl)-, (E)- (CAS) $$ (E)-Isoeugenol $$ trans-Isoeugenol $$ trans-p-Propenylquaiacol $$ Phenol,2-methoxy-4-pro



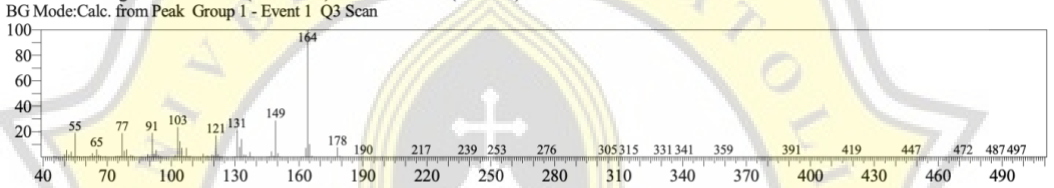
<< Target >>
Line#:12 R.Time:16.290(Scan#:2659) MassPeaks:251
RawMode:Averaged 16.285-16.295(2658-2660) BasePeak:164.05(487344)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



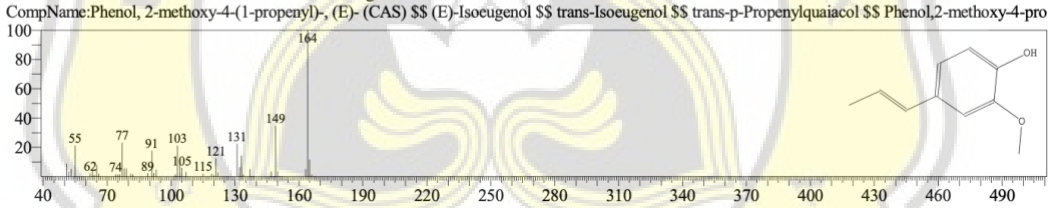
Hit#:1 Entry:72520 Library:Wiley9.lib
SI:94 Formula:C10H12O2 CAS:0-00-0 MolWeight:164 RetIndex:0
CompName:ISOEUGENOL 2



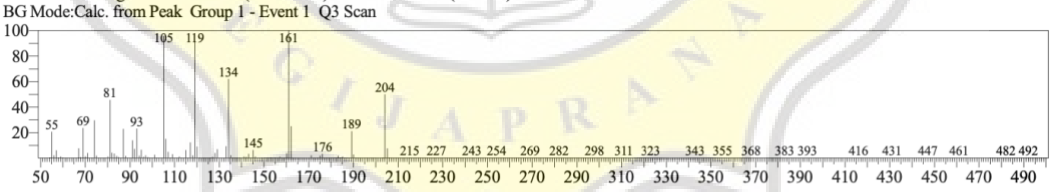
<< Target >>
Line#:13 R.Time:16.355(Scan#:2672) MassPeaks:296
RawMode:Averaged 16.350-16.360(2671-2673) BasePeak:164.05(1630445)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



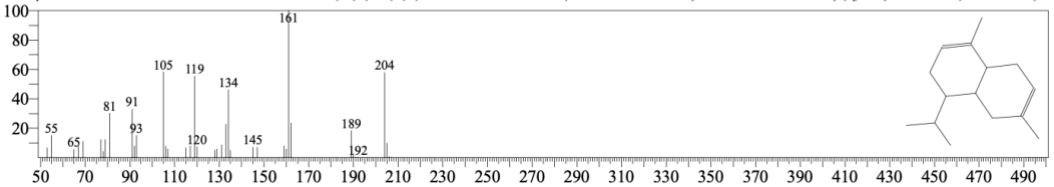
Hit#:1 Entry:72291 Library:Wiley9.lib
SI:94 Formula:C10H12O2 CAS:5932-68-3 MolWeight:164 RetIndex:0
CompName:Phenol, 2-methoxy-4-(1-propenyl)-, (E)- (CAS) $$ (E)-Isoeugenol $$ trans-Isoeugenol $$ trans-p-Propenylquaiacol $$ Phenol,2-methoxy-4-pro



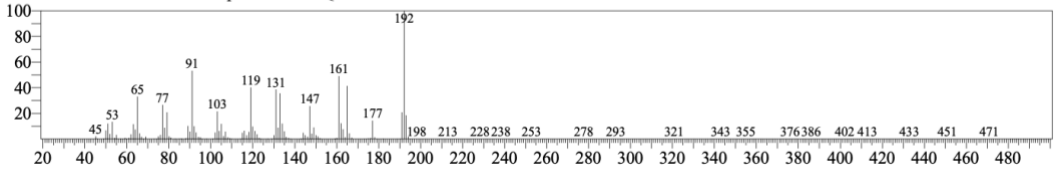
<< Target >>
Line#:14 R.Time:17.890(Scan#:2979) MassPeaks:235
RawMode:Averaged 17.885-17.895(2978-2980) BasePeak:161.10(258192)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



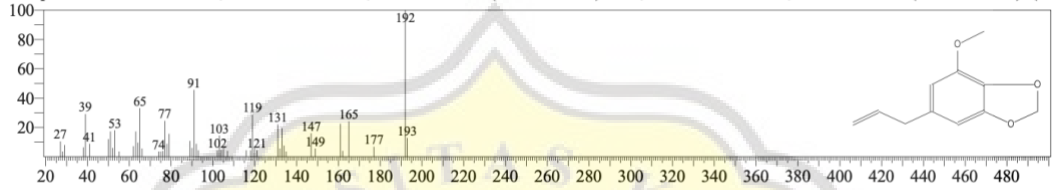
Hit#:1 Entry:152408 Library:Wiley9.lib
SI:81 Formula:C15H24 CAS:523-47-7 MolWeight:204 RetIndex:0
CompName:.beta.-cadinene $$ NAPHTHALENE, 1,2,4A,5,8,8A-HEXAHYDRO-4,7-DIMETHYL-1-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.BETA.,8.



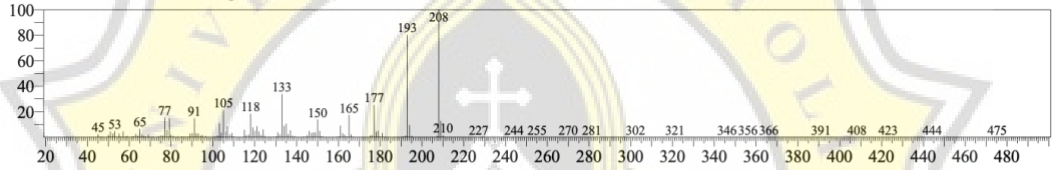
<< Target >>
Line#:15 R.Time:18.515(Scan#:3104) MassPeaks:304
RawMode:Averaged 18.510-18.520(3103-3105) BasePeak:192.10(8208036)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



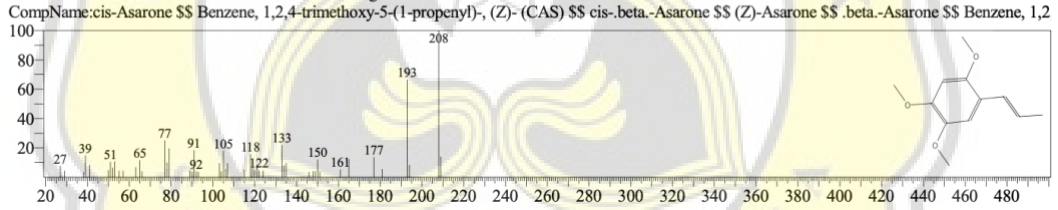
Hit#:1 Entry:124465 Library:Wiley9.lib
SI:88 Formula:C11H12O3 CAS:607-91-0 MolWeight:192 RetIndex:0
CompName:MYRISTCIN $$ 1,3-BENZODIOXOLE, 4-METHOXY-6-(2-PROPENYL)- $$ 1,3-BENZODIOXOLE, 4-METHOXY-6-(2-PROPENYL)- (9(



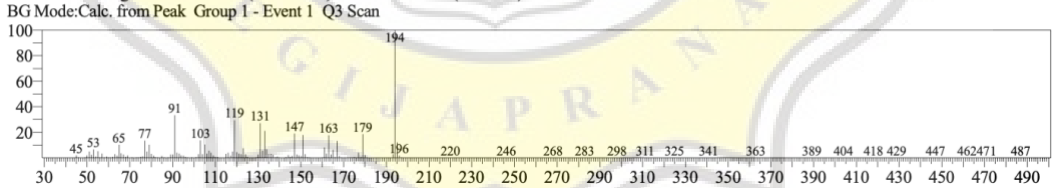
<< Target >>
Line#:16 R.Time:18.930(Scan#:3187) MassPeaks:320
RawMode:Averaged 18.925-18.935(3186-3188) BasePeak:208.10(4520986)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



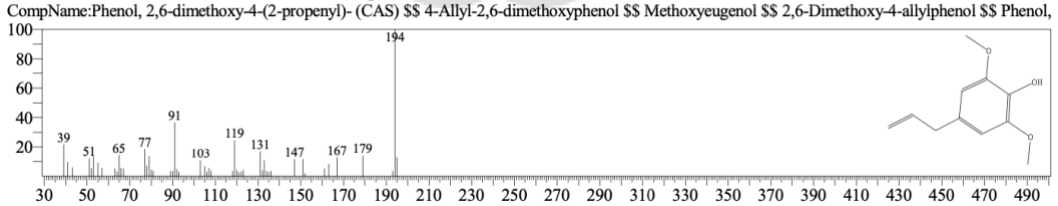
Hit#:1 Entry:160270 Library:Wiley9.lib
SI:92 Formula:C12H16O3 CAS:5273-86-9 MolWeight:208 RetIndex:0
CompName:cis-Asarone $$ Benzene, 1,2,4-trimethoxy-5-(1-propenyl)-, (Z)- (CAS) $$ cis-.beta.-Asarone $$ (Z)-Asarone $$ .beta.-Asarone $$ Benzene, 1,2



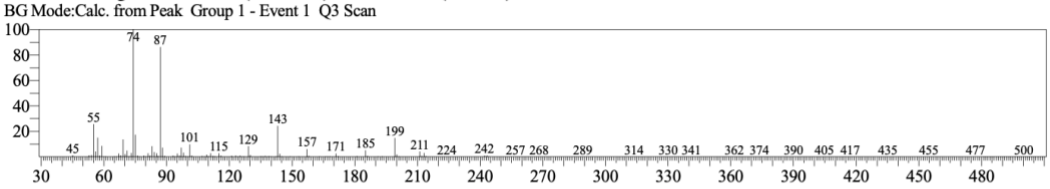
<< Target >>
Line#:17 R.Time:20.240(Scan#:3449) MassPeaks:299
RawMode:Averaged 20.235-20.245(3448-3450) BasePeak:194.05(5391131)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



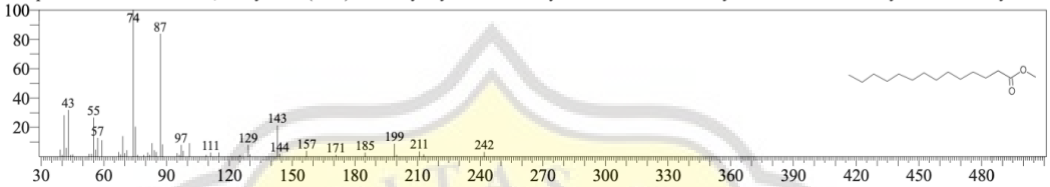
Hit#:1 Entry:129007 Library:Wiley9.lib
SI:89 Formula:C11H14O3 CAS:6627-88-9 MolWeight:194 RetIndex:0
CompName:Phenol, 2,6-dimethoxy-4-(2-propenyl)- (CAS) $$ 4-Allyl-2,6-dimethoxyphenol $$ Methoxyeugenol $$ 2,6-Dimethoxy-4-allylphenol $$ Phenol,



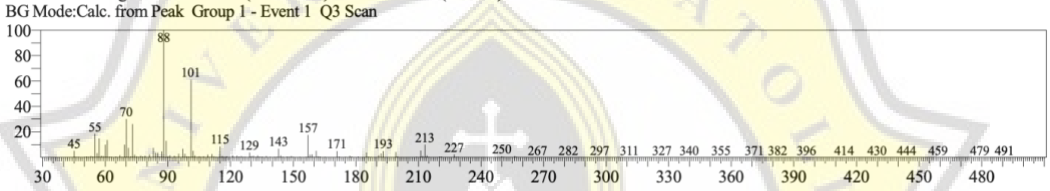
<< Target >>
Line#:18 R.Time:22.690(Scan#:3939) MassPeaks:296
RawMode:Averaged 22.685-22.695(3938-3940) BasePeak:74.00(7918726)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



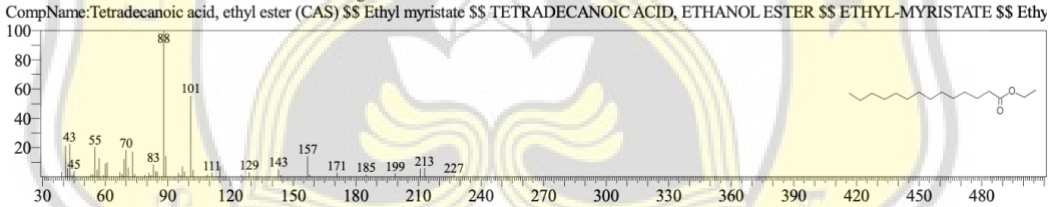
Hit#:1 Entry:241476 Library:Wiley9.lib
SI:97 Formula:C15H30O2 CAS:124-10-7 MolWeight:242 RetIndex:0
CompName:Tetradecanoic acid, methyl ester (CAS) $$ Methyl myristate $$ Methyl tetradecanoate $$ Methyl n-tetradecanoate $$ Myristic acid methyl ester



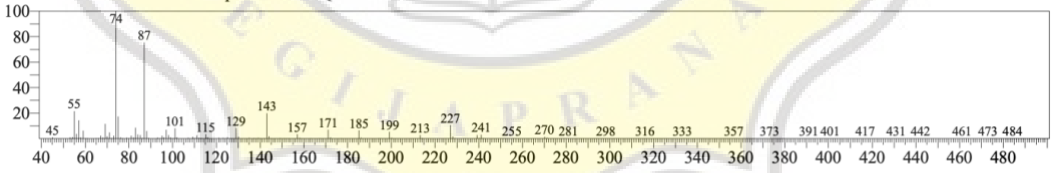
<< Target >>
Line#:19 R.Time:24.115(Scan#:4224) MassPeaks:289
RawMode:Averaged 24.110-24.120(4223-4225) BasePeak:88.05(602309)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



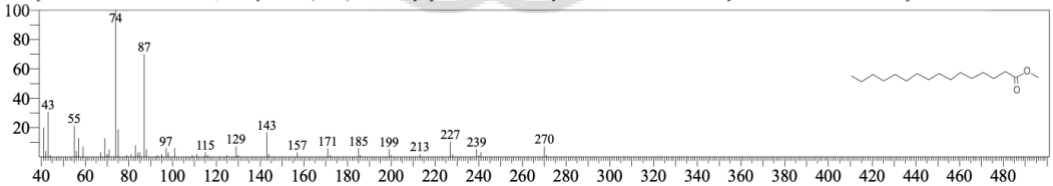
Hit#:1 Entry:274535 Library:Wiley9.lib
SI:92 Formula:C16H32O2 CAS:124-06-1 MolWeight:256 RetIndex:0
CompName:Tetradecanoic acid, ethyl ester (CAS) $$ Ethyl myristate $$ TETRADECANOIC ACID, ETHANOL ESTER $$ ETHYL-MYRISTATE $$ Ethy



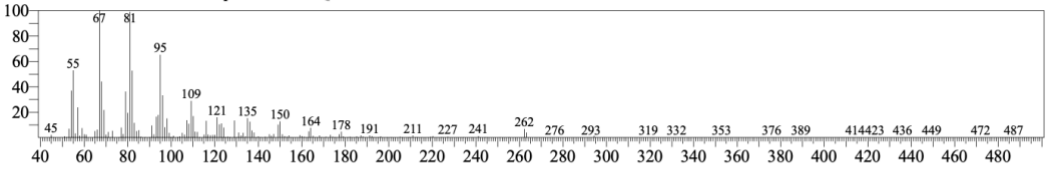
<< Target >>
Line#:20 R.Time:27.000(Scan#:4801) MassPeaks:291
RawMode:Averaged 26.995-27.005(4800-4802) BasePeak:74.05(6685563)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



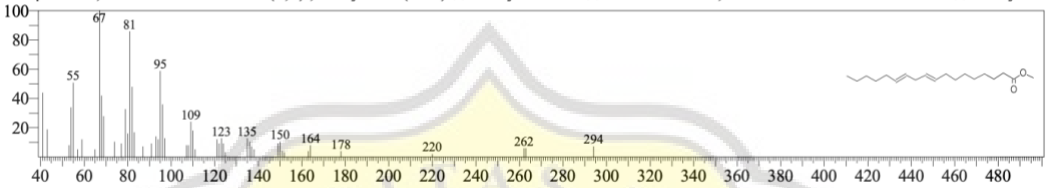
Hit#:1 Entry:307423 Library:Wiley9.lib
SI:96 Formula:C17H34O2 CAS:112-39-0 MolWeight:270 RetIndex:0
CompName:Hexadecanoic acid, methyl ester (CAS) $$ Methyl palmitate $$ Methyl hexadecanoate $$ Methyl n-hexadecanoate $$ Uniphat A60 $$ Metholes



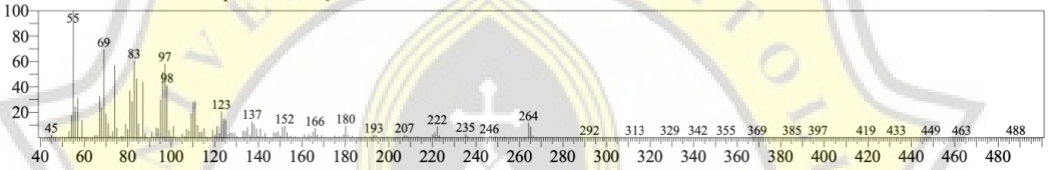
<< Target >>
Line#:21 R.Time:30.275(Scan#:5456) MassPeaks:278
RawMode:Averaged 30.270-30.280(5455-5457) BasePeak:67.05(182660)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



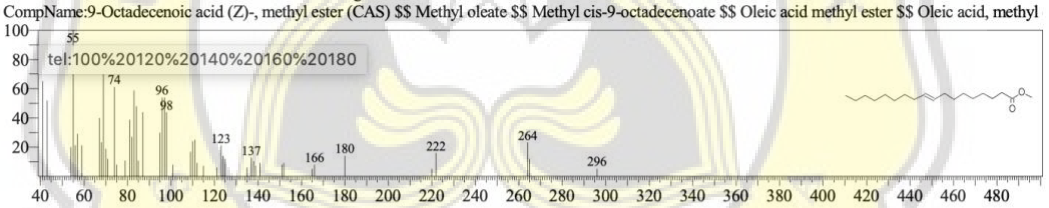
Hit#:1 Entry:361819 Library:Wiley9.lib
SI:90 Formula:C19H34O2 CAS:112-63-0 MolWeight:294 RetIndex:0
CompName:9,12-Octadecadienoic acid (Z,Z)-, methyl ester (CAS) $$ Methyl linoleate $$ METHYL CIS-9,CIS-12-OCTADECADIENOATE $$ Methyl oct



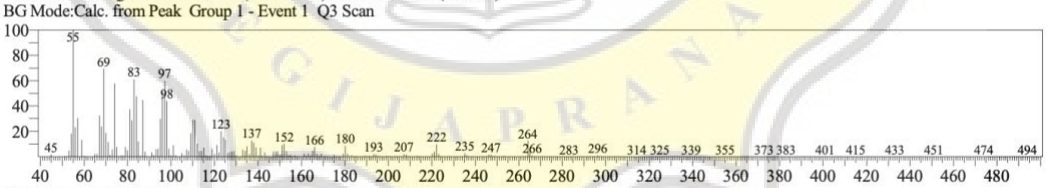
<< Target >>
Line#:22 R.Time:30.475(Scan#:5496) MassPeaks:333
RawMode:Averaged 30.470-30.480(5495-5497) BasePeak:55.05(2174110)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



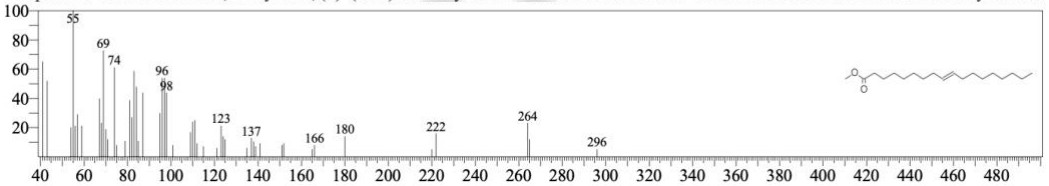
Hit#:1 Entry:366313 Library:Wiley9.lib
SI:96 Formula:C19H36O2 CAS:112-62-9 MolWeight:296 RetIndex:0
CompName:9-Octadecenoic acid (Z)-, methyl ester (CAS) $$ Methyl oleate $$ Methyl cis-9-octadecenoate $$ Oleic acid methyl ester $$ Oleic acid, methyl



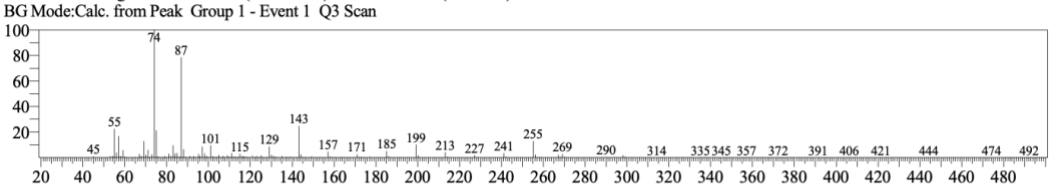
<< Target >>
Line#:23 R.Time:30.560(Scan#:5513) MassPeaks:307
RawMode:Averaged 30.555-30.565(5512-5514) BasePeak:55.05(676504)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



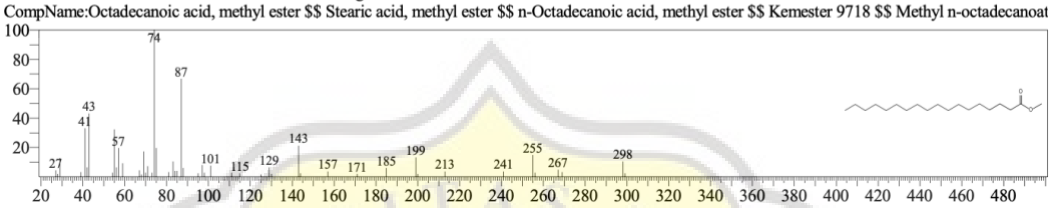
Hit#:1 Entry:366334 Library:Wiley9.lib
SI:96 Formula:C19H36O2 CAS:1937-62-8 MolWeight:296 RetIndex:0
CompName:9-Octadecenoic acid, methyl ester, (E)- (CAS) $$ Methyl elaidate $$ METHYL-TRANS 9-OCTADECENOATE $$ Elaidic acid methyl ester $$



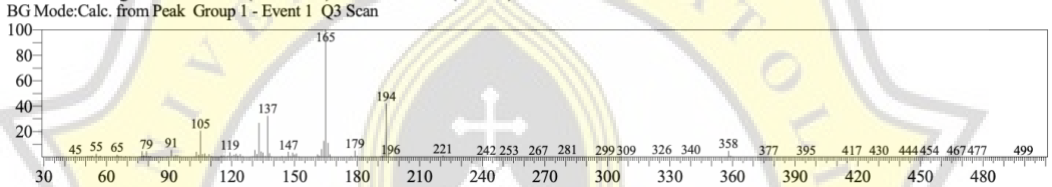
<< Target >>
Line#:24 R.Time:30.900(Scan#:5581) MassPeaks:324
RawMode:Averaged 30.895-30.905(5580-5582) BasePeak:74.05(2199141)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



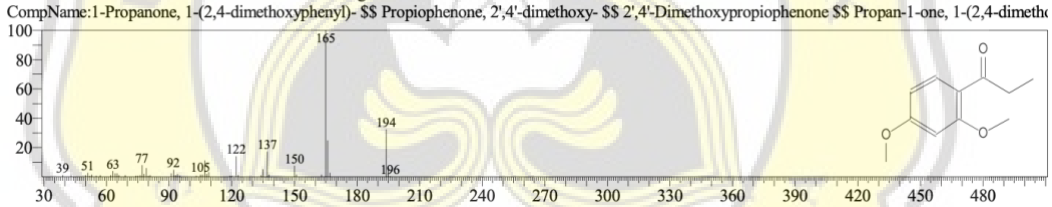
Hit#:1 Entry:24247 Library:NIST08s.LIB
SI:94 Formula:C19H38O2 CAS:112-61-8 MolWeight:298 RetIndex:2077
CompName:Octadecanoic acid, methyl ester $$ Stearic acid, methyl ester $$ n-Octadecanoic acid, methyl ester $$ Kemester 9718 $$ Methyl n-octadecanoat



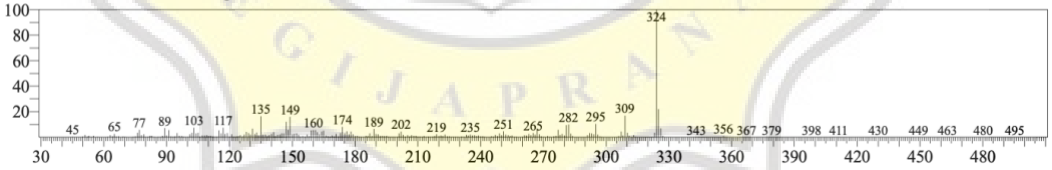
<< Target >>
Line#:25 R.Time:39.575(Scan#:7316) MassPeaks:307
RawMode:Averaged 39.570-39.580(7315-7317) BasePeak:165.05(879437)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



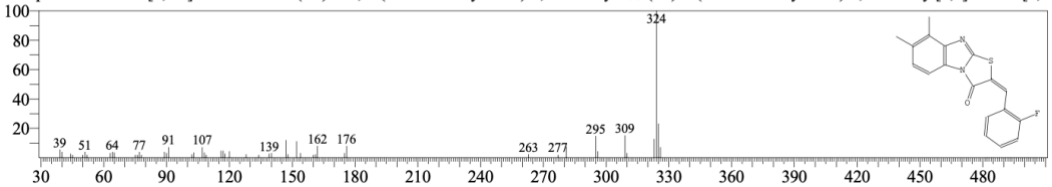
Hit#:1 Entry:15697 Library:NIST08s.LIB
SI:75 Formula:C11H14O3 CAS:831-00-5 MolWeight:194 RetIndex:1507
CompName:1-Propanone, 1-(2,4-dimethoxyphenyl)- $$ Propiophenone, 2',4'-dimethoxy- $$ 2',4'-Dimethoxypropiophenone $$ Propan-1-one, 1-(2,4-dimeth



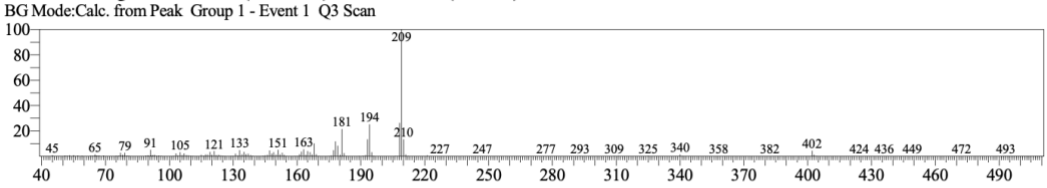
<< Target >>
Line#:26 R.Time:41.100(Scan#:7621) MassPeaks:354
RawMode:Averaged 41.095-41.105(7620-7622) BasePeak:324.05(2681918)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



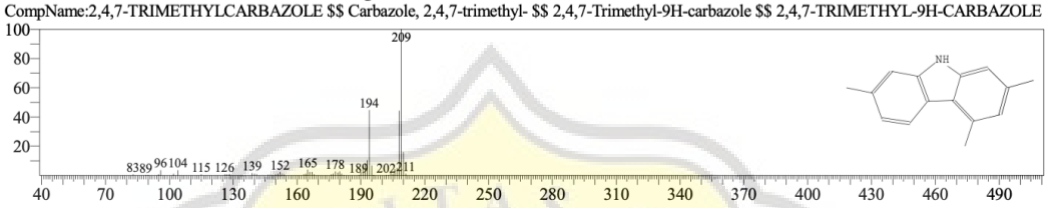
Hit#:1 Entry:424015 Library:Wiley9.lib
SI:69 Formula:C18H13FN2OS CAS:294878-41-4 MolWeight:324 RetIndex:0
CompName:Thiazolo[3,2-a]benzimidazol-3(2H)-one, 2-(2-fluorobenzylideno)-7,8-dimethyl- $$ (2E)-2-(2-Fluorobenzylidene)-7,8-dimethyl[1,3]thiazolo[3,2



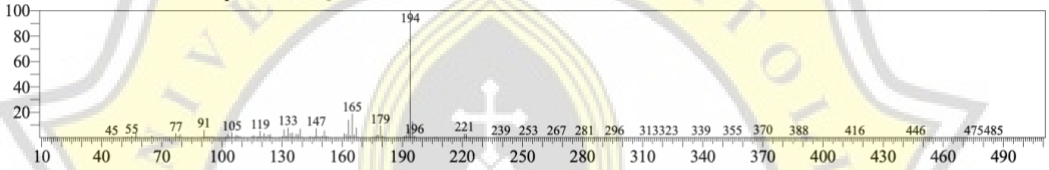
<< Target >>
Line#:27 R.Time:41.565(Scan#:7714) MassPeaks:337
RawMode:Averaged 41.560-41.570(7713-7715) BasePeak:209.10(2102372)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



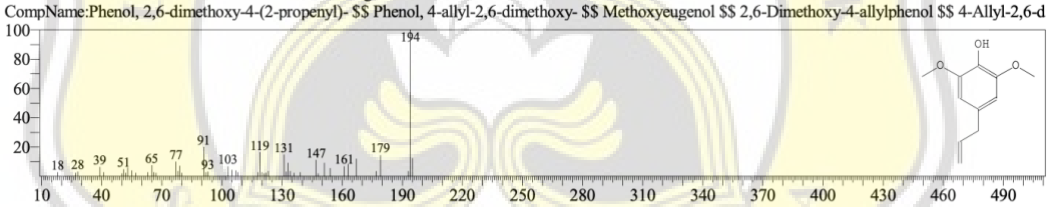
Hit#:1 Entry:163482 Library:Wiley9.lib
SI:72 Formula:C15H15N CAS:78787-89-0 MolWeight:209 RetIndex:0
CompName:2,4,7-TRIMETHYLCARBAZOLE $$ Carbazole, 2,4,7-trimethyl- $$ 2,4,7-Trimethyl-9H-carbazole $$ 2,4,7-TRIMETHYL-9H-CARBAZOLE



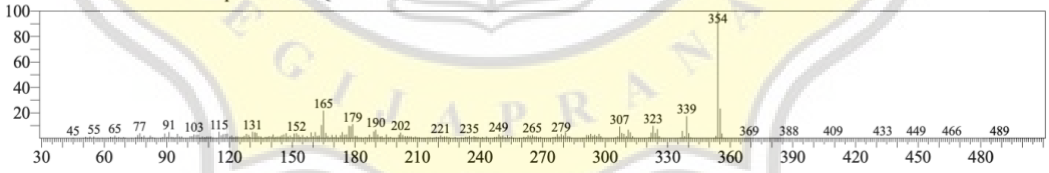
<< Target >>
Line#:28 R.Time:43.100(Scan#:8021) MassPeaks:350
RawMode:Averaged 43.095-43.105(8020-8022) BasePeak:194.05(2745648)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



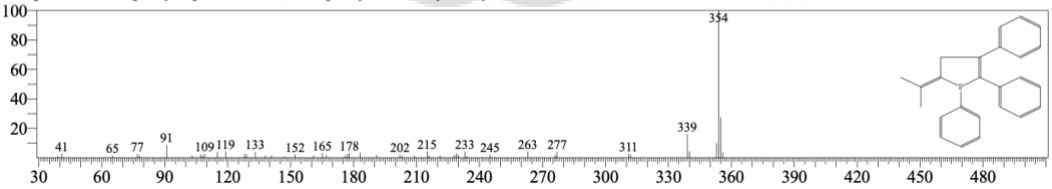
Hit#:1 Entry:15699 Library:NIST08s.LIB
SI:78 Formula:C11H14O3 CAS:6627-88-9 MolWeight:194 RetIndex:1581
CompName:Phenol, 2,6-dimethoxy-4-(2-propenyl)- $$ Phenol, 4-allyl-2,6-dimethoxy- $$ Methoxyeugenol $$ 2,6-Dimethoxy-4-allylphenol $$ 4-Allyl-2,6-d



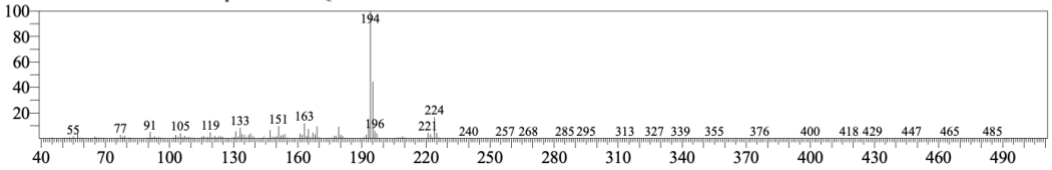
<< Target >>
Line#:29 R.Time:44.075(Scan#:8216) MassPeaks:380
RawMode:Averaged 44.070-44.080(8215-8217) BasePeak:354.10(926067)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



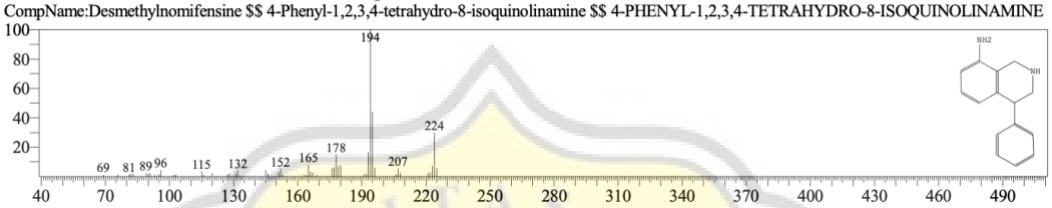
Hit#:1 Entry:479351 Library:Wiley9.lib
SI:64 Formula:C25H23P CAS:0-00-0 MolWeight:354 RetIndex:0
CompName:1-Phosphacyclopent-2-ene, 1,2,3-triphenyl-5-dimethylmethylene $$ 1-PHOSPHACYCLOPENT-2-EN, 1,2,3-TRIPHENYL-5-DIMETHYLME



<< Target >>
Line#:30 R.Time:44.575(Scan#:8316) MassPeaks:326
RawMode:Averaged 44.570-44.580(8315-8317) BasePeak:194.05(1776555)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan

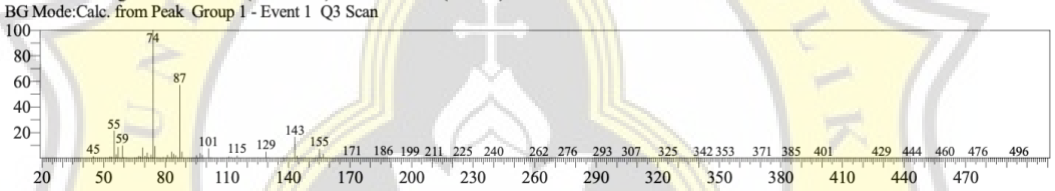


Hit#:1 Entry:199455 Library:Wiley9.lib
SI:74 Formula:C15H16N2 CAS:73999-34-5 MolWeight:224 RetIndex:0
CompName:Desmethylnomifensine $$ 4-Phenyl-1,2,3,4-tetrahydro-8-isoquinolinamine $$ 4-PHENYL-1,2,3,4-TETRAHYDRO-8-ISOQUINOLINAMINE

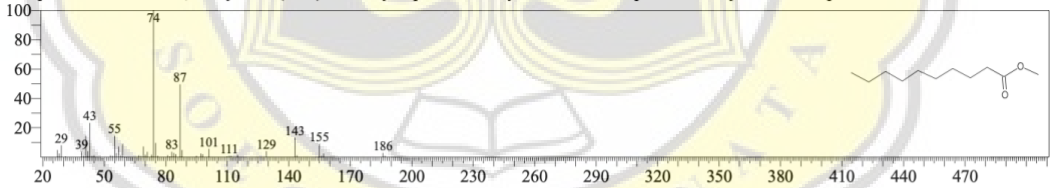


Lampiran 11. Hasil *Peak* GC-MS Enkapsulat Oleoresin Biji Pala

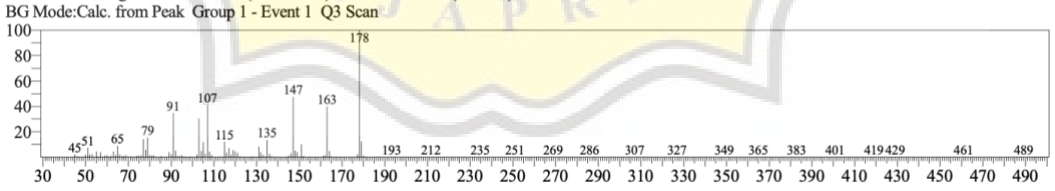
<< Target >>
Line#:1 R.Time:12.570(Scan#:1915) MassPeaks:283
RawMode:Averaged 12.565-12.575(1914-1916) BasePeak:74.05(416710)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



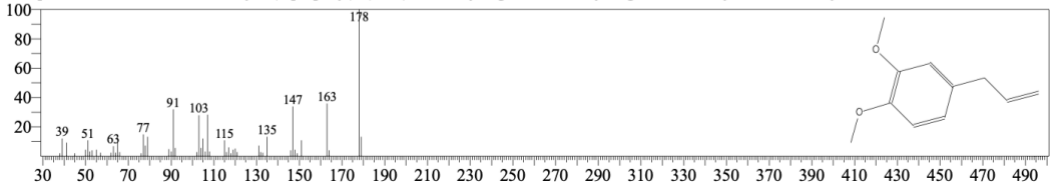
Hit#:1 Entry:113853 Library:Wiley9.lib
SI:96 Formula:C11H22O2 CAS:110-42-9 MolWeight:186 RetIndex:0
CompName:Decanoic acid, methyl ester (CAS) $$ Methyl caprate $$ Methyl decanoate $$ Capric acid methyl ester $$ Uniphat A30 $$ Metholene 2095 $$



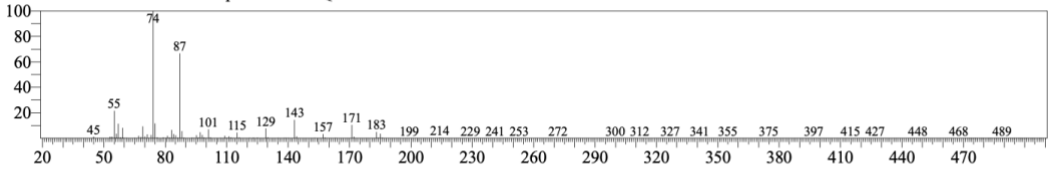
<< Target >>
Line#:2 R.Time:14.820(Scan#:2365) MassPeaks:266
RawMode:Averaged 14.815-14.825(2364-2366) BasePeak:178.10(106080)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



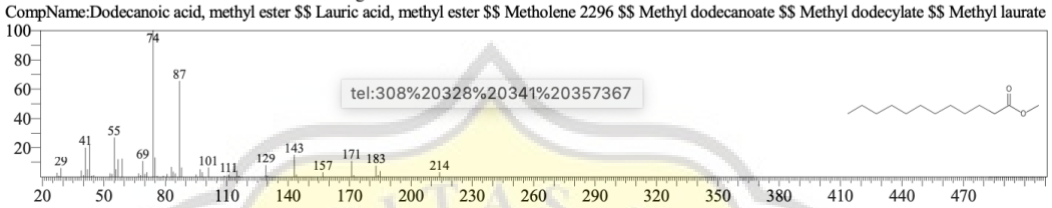
Hit#:1 Entry:97477 Library:Wiley9.lib
SI:95 Formula:C11H14O2 CAS:93-15-2 MolWeight:178 RetIndex:0
CompName:Benzene, 1,2-dimethoxy-4-(2-propenyl)- (CAS) $$ Methyleugenol $$ Methyl eugenol $$ 1-Allyl-3,4-dimethoxybenzene $$ Ent 21040 $$ O-M



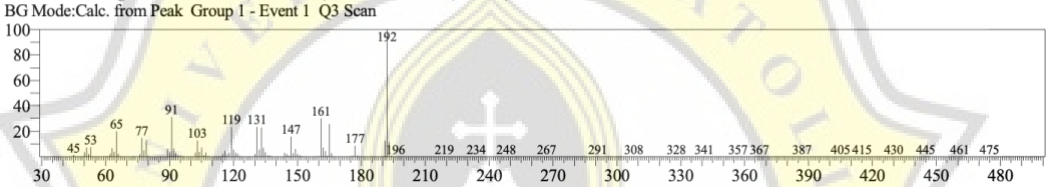
<< Target >>
Line#:3 R.Time:17.800(Scan#:2961) MassPeaks:287
RawMode:Averaged 17.795-17.805(2960-2962) BasePeak:74.05(2695841)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



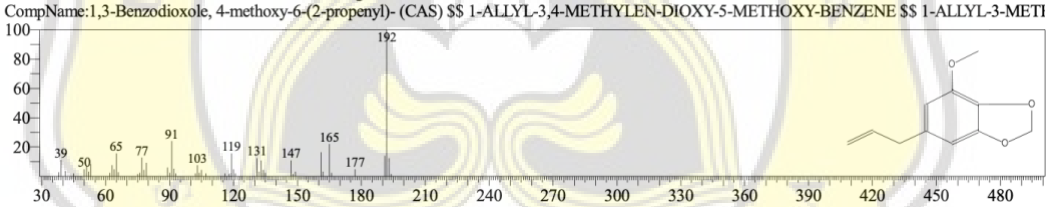
Hit#:1 Entry:18327 Library:NIST08s.LIB
SI:96 Formula:C13H26O2 CAS:111-82-0 MolWeight:214 RetIndex:1481
CompName:Dodecanoic acid, methyl ester $$ Lauric acid, methyl ester $$ Metholene 2296 $$ Methyl dodecanoate $$ Methyl dodecylate $$ Methyl laurate



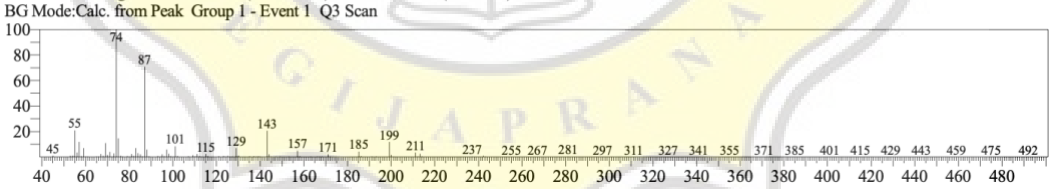
<< Target >>
Line#:4 R.Time:17.915(Scan#:2984) MassPeaks:280
RawMode:Averaged 17.910-17.920(2983-2985) BasePeak:192.10(189546)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



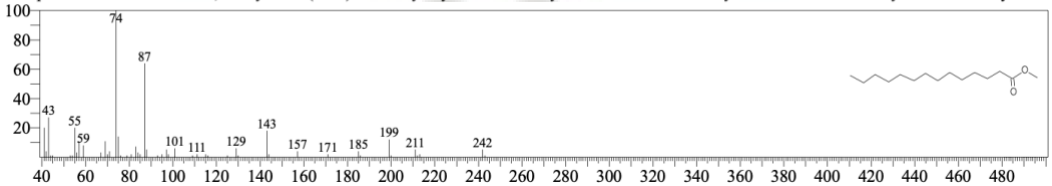
Hit#:1 Entry:124423 Library:Wiley9.lib
SI:91 Formula:C11H12O3 CAS:607-91-0 MolWeight:192 RetIndex:0
CompName:1,3-Benzodioxole, 4-methoxy-6-(2-propenyl)- (CAS) $$ 1-ALLYL-3,4-METHYLEN-DIOXY-5-METHOXY-BENZENE $$ 1-ALLYL-3-METI



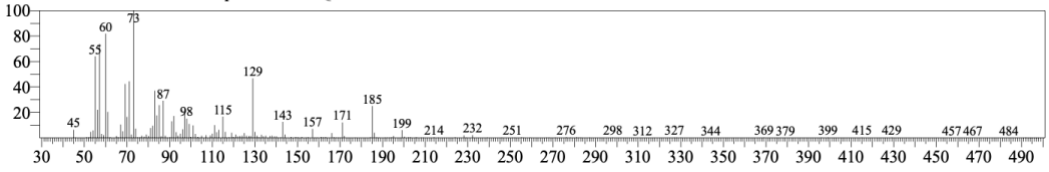
<< Target >>
Line#:5 R.Time:22.585(Scan#:3918) MassPeaks:345
RawMode:Averaged 22.580-22.590(3917-3919) BasePeak:74.05(2175429)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



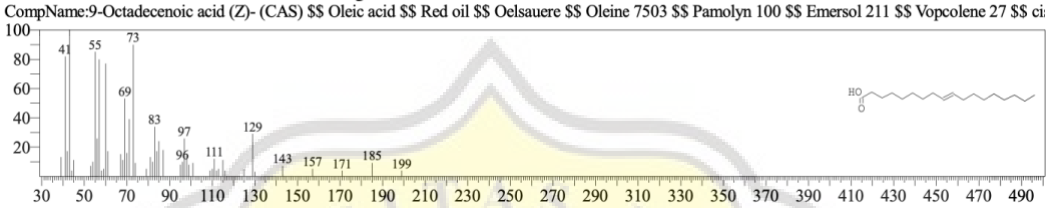
Hit#:1 Entry:241481 Library:Wiley9.lib
SI:96 Formula:C15H30O2 CAS:124-10-7 MolWeight:242 RetIndex:0
CompName:Tetradecanoic acid, methyl ester (CAS) $$ Methyl myristate $$ Methyl tetradecanoate $$ Methyl n-tetradecanoate $$ Myristic acid methyl ester



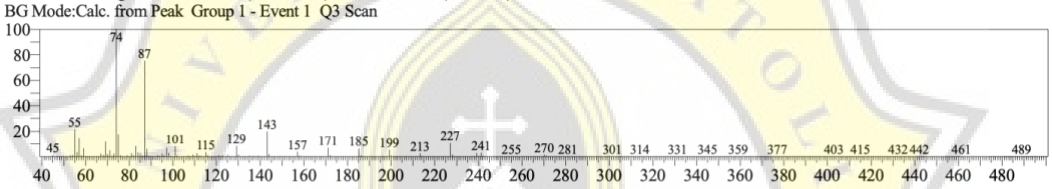
<< Target >>
Line#:6 R.Time:23.790(Scan#:4159) MassPeaks:289
RawMode:Averaged 23.785-23.795(4158-4160) BasePeak:73.05(70058)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



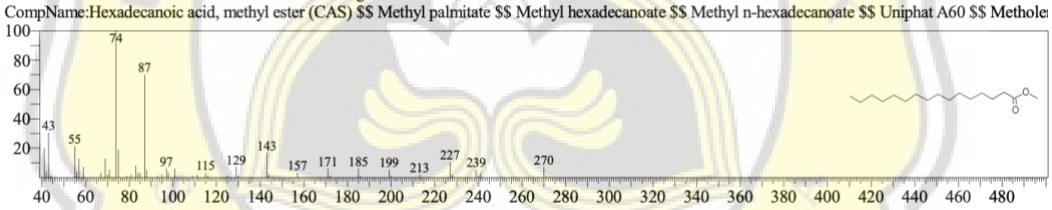
Hit#:1 Entry:335029 Library:Wiley9.lib
SI:91 Formula:C18H34O2 CAS:112-80-1 MolWeight:282 RetIndex:0
CompName:9-Octadecenoic acid (Z)- (CAS) $$ Oleic acid $$ Red oil $$ Oelsauere $$ Oleine 7503 $$ Pamolyn 100 $$ Emersol 211 $$ Vopcolene 27 $$ ci



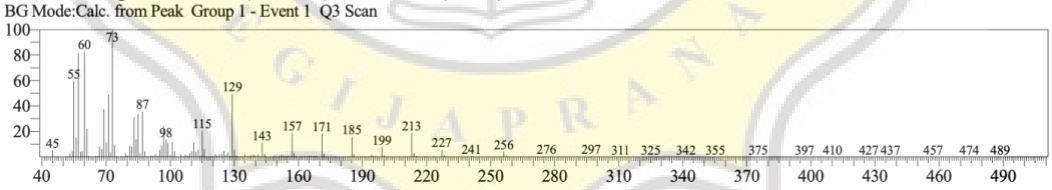
<< Target >>
Line#:7 R.Time:27.000(Scan#:4801) MassPeaks:286
RawMode:Averaged 26.995-27.005(4800-4802) BasePeak:74.05(7003192)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



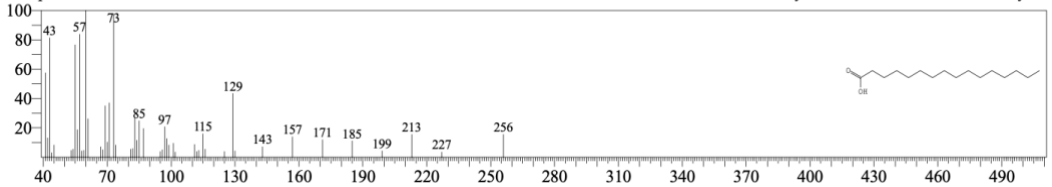
Hit#:1 Entry:307423 Library:Wiley9.lib
SI:96 Formula:C17H34O2 CAS:112-39-0 MolWeight:270 RetIndex:0
CompName:Hexadecanoic acid, methyl ester (CAS) $$ Methyl palmitate $$ Methyl hexadecanoate $$ Methyl n-hexadecanoate $$ Uniphat A60 $$ Methole



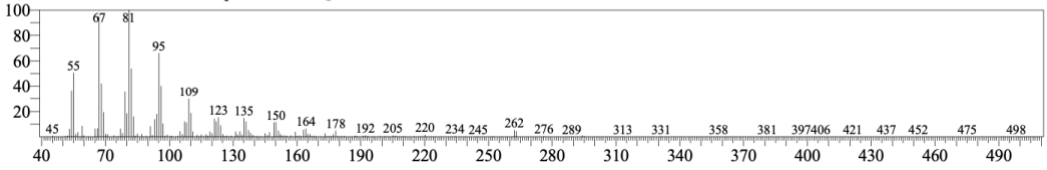
<< Target >>
Line#:8 R.Time:28.12(tel:100%20120%20140%20160%20180
RawMode:Averaged 28.115-28.125(5024-5026) BasePeak:73.05(387813)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



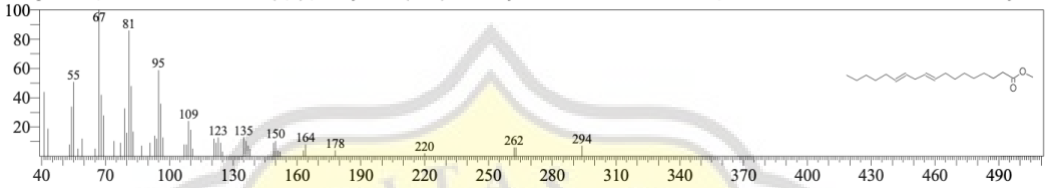
Hit#:1 Entry:21864 Library:NIST08s.LIB
SI:94 Formula:C16H32O2 CAS:57-10-3 MolWeight:256 RetIndex:1968
CompName:n-Hexadecanoic acid $$ Hexadecanoic acid $$ n-Hexadecoic acid $$ Palmitic acid $$ Pentadecanecarboxylic acid $$ 1-Pentadecanecarboxylic



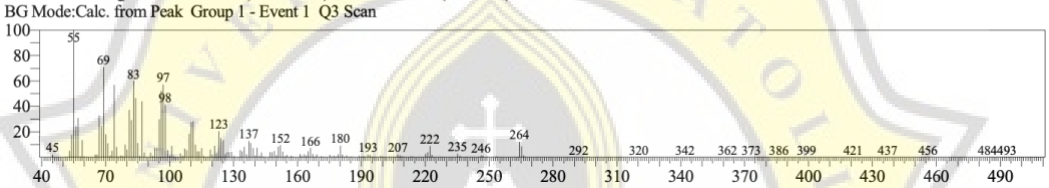
<< Target >>
Line#:9 R.Time:30.285(Scan#:5458) MassPeaks:297
RawMode:Averaged 30.280-30.290(5457-5459) BasePeak:81.05(109521)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



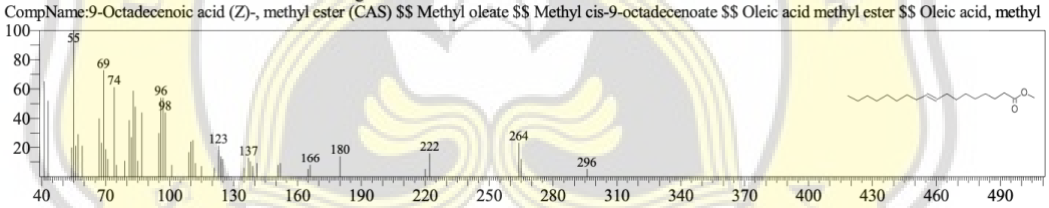
Hit#:1 Entry:361819 Library:Wiley9.lib
SI:93 Formula:C19H34O2 CAS:112-63-0 MolWeight:294 RetIndex:0
CompName:9,12-Octadecadienoic acid (Z,Z)-, methyl ester (CAS) $$ Methyl linoleate $$ METHYL CIS-9,CIS-12-OCTADECADIENOATE $$ Methyl oct



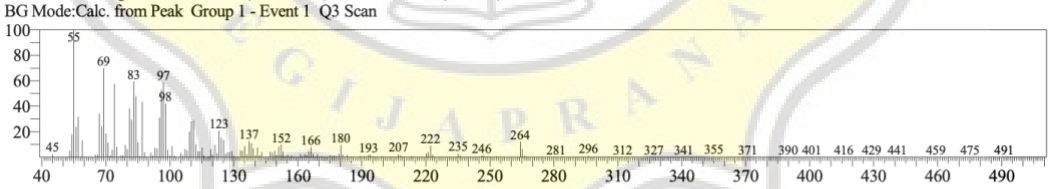
<< Target >>
Line#:10 R.Time:30.485(Scan#:5498) MassPeaks:338
RawMode:Averaged 30.480-30.490(5497-5499) BasePeak:55.05(2315891)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



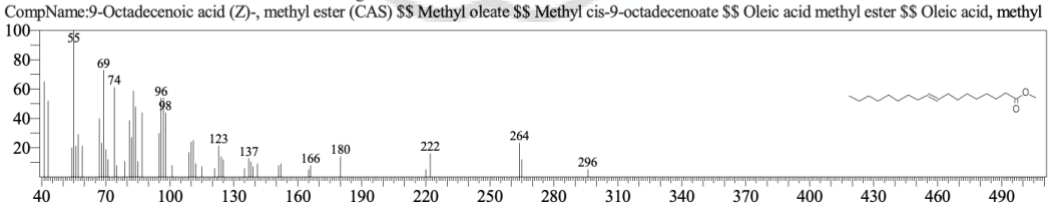
Hit#:1 Entry:366313 Library:Wiley9.lib
SI:96 Formula:C19H36O2 CAS:112-62-9 MolWeight:296 RetIndex:0
CompName:9-Octadecenoic acid (Z)-, methyl ester (CAS) $$ Methyl oleate $$ Methyl cis-9-octadecenoate $$ Oleic acid methyl ester $$ Oleic acid, methyl



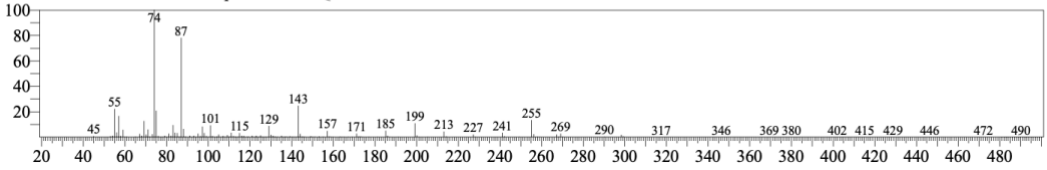
<< Target >>
Line#:11 R.Time:30.575(Scan#:5516) MassPeaks:350
RawMode:Averaged 30.570-30.580(5515-5517) BasePeak:55.05(783267)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



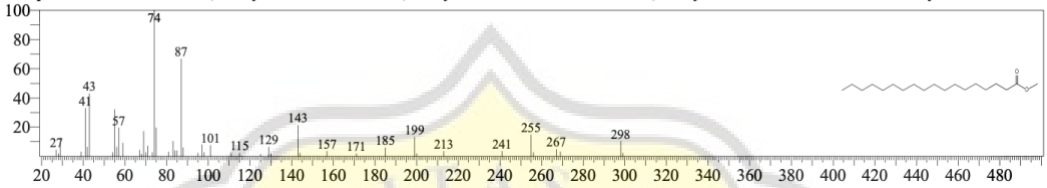
Hit#:1 Entry:366313 Library:Wiley9.lib
SI:96 Formula:C19H36O2 CAS:112-62-9 MolWeight:296 RetIndex:0
CompName:9-Octadecenoic acid (Z)-, methyl ester (CAS) $$ Methyl oleate $$ Methyl cis-9-octadecenoate $$ Oleic acid methyl ester $$ Oleic acid, methyl



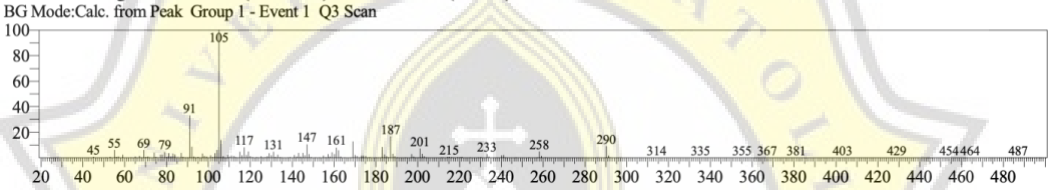
<< Target >>
Line#:12 R.Time:30.915(Scan#:5584) MassPeaks:328
RawMode:Averaged 30.910-30.920(5583-5585) BasePeak:74.05(2617307)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



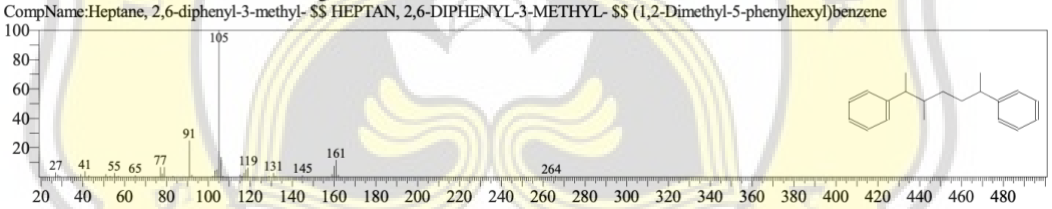
Hit#:1 Entry:24247 Library:NIST08s.LIB
SI:94 Formula:C19H38O2 CAS:112-61-8 MolWeight:298 RetIndex:2077
CompName:Octadecanoic acid, methyl ester $$ Stearic acid, methyl ester $$ n-Octadecanoic acid, methyl ester $$ Kemester 9718 $$ Methyl n-octadecanoat



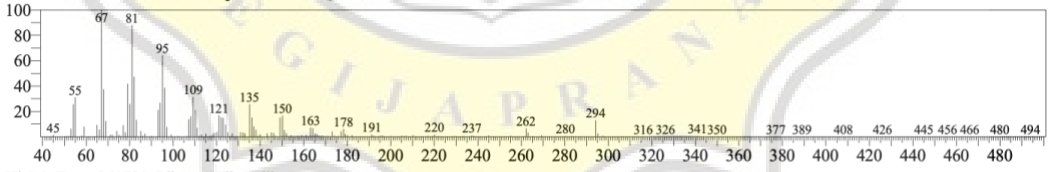
<< Target >>
Line#:13 R.Time:31.120(Scan#:5625) MassPeaks:297
RawMode:Averaged 31.115-31.125(5624-5626) BasePeak:105.05(365040)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



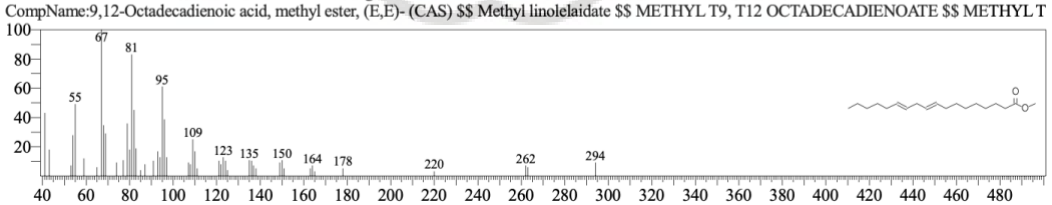
Hit#:1 Entry:298500 Library:Wiley9.lib
SI:72 Formula:C20H26 CAS:0-00-0 MolWeight:266 RetIndex:0
CompName:Heptane, 2,6-diphenyl-3-methyl- $$ HEPTAN, 2,6-DIPHENYL-3-METHYL- $$ (1,2-Dimethyl-5-phenylhexyl)benzene



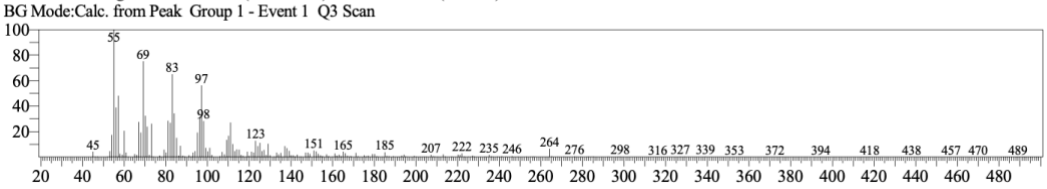
<< Target >>
Line#:14 R.Time:31.245(Scan#:5650) MassPeaks:249
RawMode:Averaged 31.240-31.250(5649-5651) BasePeak:67.05(56798)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



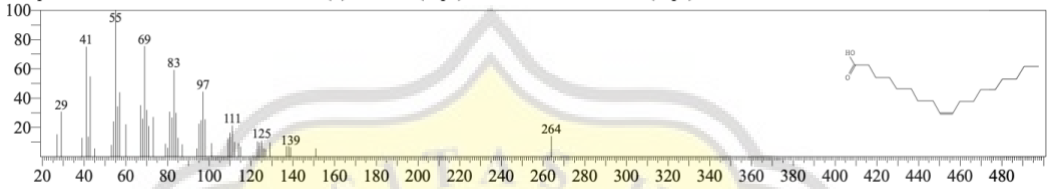
Hit#:1 Entry:361781 Library:Wiley9.lib
SI:92 Formula:C19H34O2 CAS:2566-97-4 MolWeight:294 RetIndex:0
CompName:9,12-Octadecadienoic acid, methyl ester, (E,E)- (CAS) $$ Methyl linolelaidate $$ METHYL T9, T12 OCTADECADIENOATE $$ METHYL T



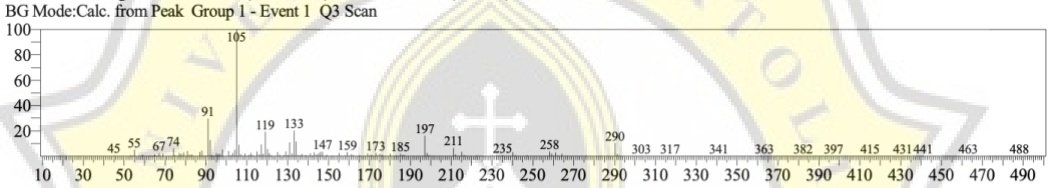
<< Target >>
Line#:15 R.Time:31.450(Scan#:5691) MassPeaks:305
RawMode:Averaged 31.445-31.455(5690-5692) BasePeak:55.05(156708)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



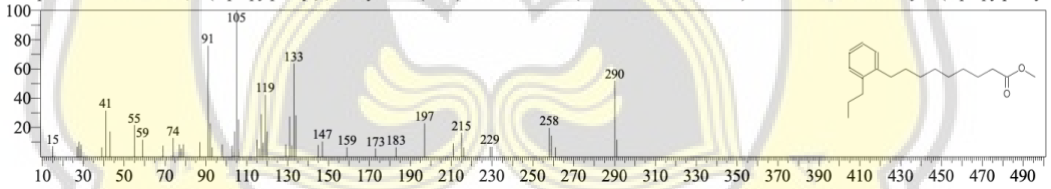
Hit#:1 Entry:23408 Library:NIST08s.LIB
SI:95 Formula:C18H34O2 CAS:112-80-1 MolWeight:282 RetIndex:2175
CompName:Oleic Acid $$ 9-Octadecenoic acid (Z)- $$ .delta.(Sup9)-cis-Oleic acid $$ cis-.delta.(Sup9)-Octadecenoic acid $$ cis-Oleic Acid $$ cis-9-Octad



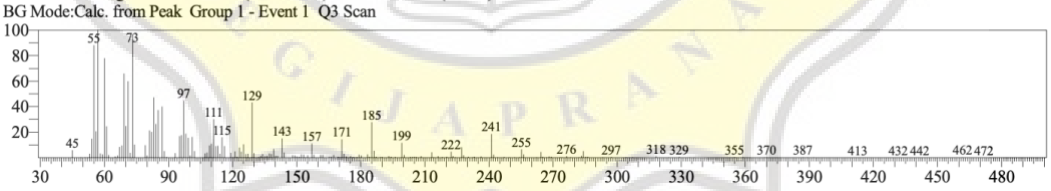
<< Target >>
Line#:16 R.Time:31.625(Scan#:5726) MassPeaks:270
RawMode:Averaged 31.620-31.630(5725-5727) BasePeak:105.05(118130)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



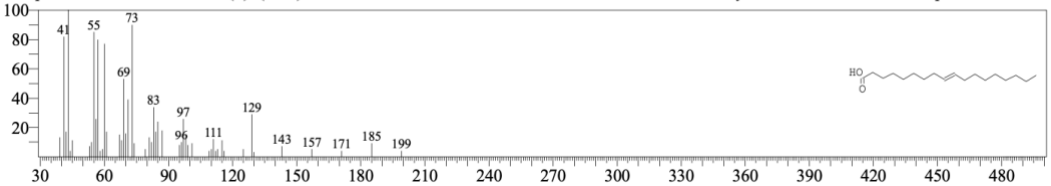
Hit#:1 Entry:352792 Library:Wiley9.lib
SI:72 Formula:C19H30O2 CAS:17670-86-9 MolWeight:290 RetIndex:0
CompName:Nonanoic acid, 9-(o-propylphenyl)-, methyl ester (CAS) $$ METHYL 9-(2-PROPYL-1-PHENYL)NONANOATE $$ Methyl 9-(o-propylphenyl



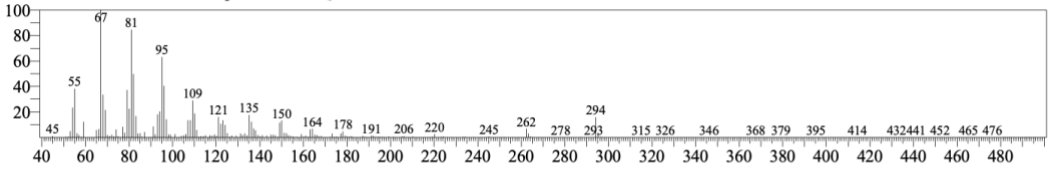
<< Target >>
Line#:17 R.Time:31.825(Scan#:5766) MassPeaks:245
RawMode:Averaged 31.820-31.830(5765-5767) BasePeak:57.05(38289)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



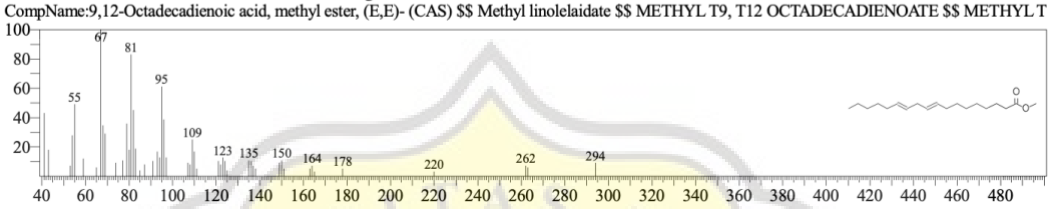
Hit#:1 Entry:335029 Library:Wiley9.lib
SI:89 Formula:C18H34O2 CAS:112-80-1 MolWeight:282 RetIndex:0
CompName:9-Octadecenoic acid (Z)- (CAS) $$ Oleic acid $$ Red oil $$ Oelsauere $$ Oleine 7503 $$ Pamolyn 100 $$ Emersol 211 $$ Vopcolene 27 $$ ci



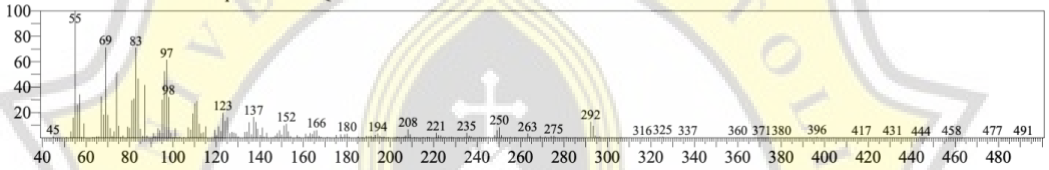
<< Target >>
Line#:18 R.Time:32.065(Scan#:5814) MassPeaks:296
RawMode:Averaged 32.060-32.070(5813-5815) BasePeak:67.05(203916)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



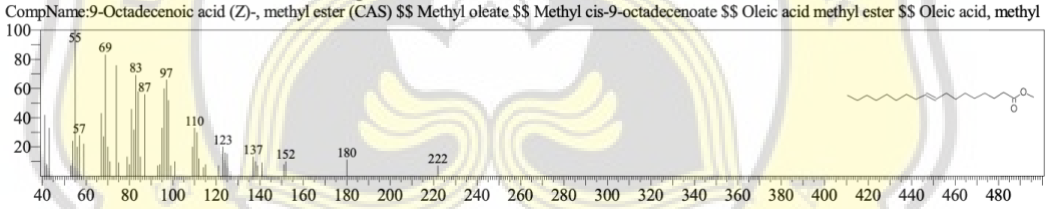
Hit#:1 Entry:361781 Library:Wiley9.lib
SI:95 Formula:C19H34O2 CAS:2566-97-4 MolWeight:294 RetIndex:0
CompName:9,12-Octadecadienoic acid, methyl ester, (E,E)- (CAS) $$ Methyl linolelaidate $$ METHYL T9, T12 OCTADECADIENOATE $$ METHYL T



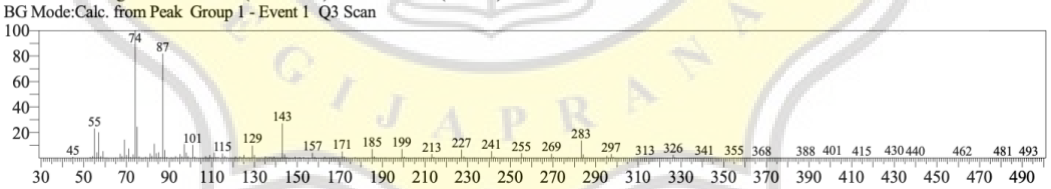
<< Target >>
Line#:19 R.Time:34.045(Scan#:6210) MassPeaks:286
RawMode:Averaged 34.040-34.050(6209-6211) BasePeak:55.05(44630)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



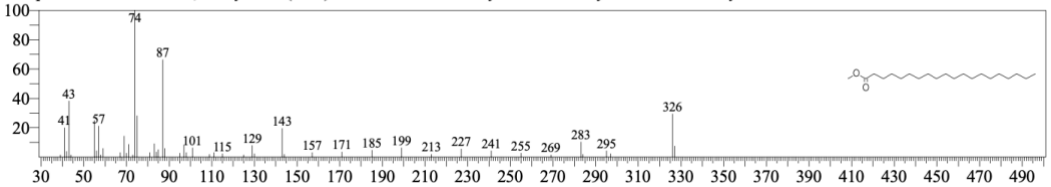
Hit#:1 Entry:366299 Library:Wiley9.lib
SI:91 Formula:C19H36O2 CAS:112-62-9 MolWeight:296 RetIndex:0
CompName:9-Octadecenoic acid (Z)-, methyl ester (CAS) $$ Methyl oleate $$ Methyl cis-9-octadecenoate $$ Oleic acid methyl ester $$ Oleic acid, methyl



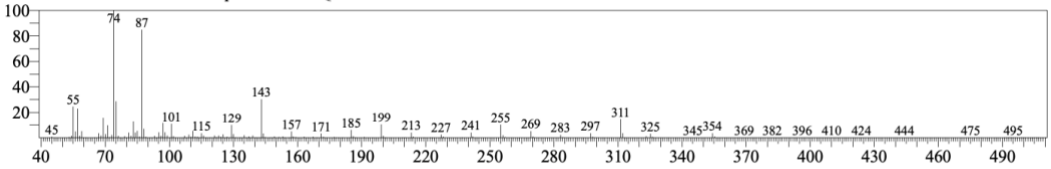
<< Target >>
Line#:20 R.Time:34.495(Scan#:6300) MassPeaks:330
RawMode:Averaged 34.490-34.500(6299-6301) BasePeak:74.05(375326)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



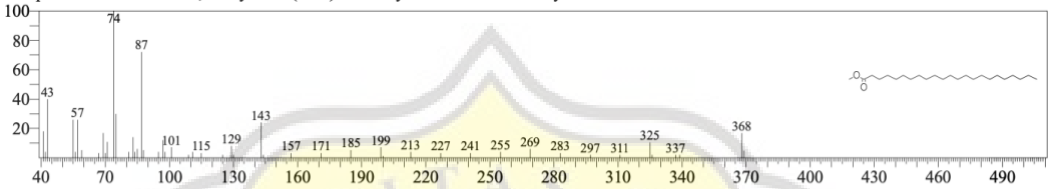
Hit#:1 Entry:429027 Library:Wiley9.lib
SI:93 Formula:C21H42O2 CAS:1120-28-1 MolWeight:326 RetIndex:0
CompName:Eicosanoic acid, methyl ester (CAS) $$ Arachidic acid methyl ester $$ Methyl arachate $$ Methyl eicosanoate $$ METHYL N-EICOSANOAT



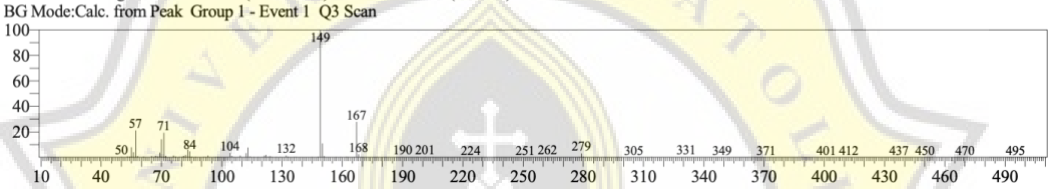
<< Target >>
Line#:21 R.Time:37.840(Scan#:6969) MassPeaks:335
RawMode:Averaged 37.835-37.845(6968-6970) BasePeak:74.05(511996)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



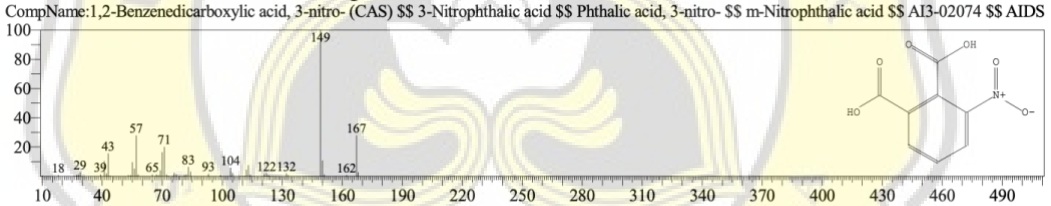
Hit#:1 Entry:500686 Library:Wiley9.lib
SI:91 Formula:C24H48O2 CAS:2433-97-8 MolWeight:368 RetIndex:0
CompName:Tricosanoic acid, methyl ester (CAS) $$ Methyl tricosanoate $$ Methyl tricosanoate $$ TRICOSANOIC ACID ME $$ FAME 23:0 $$ EINECS



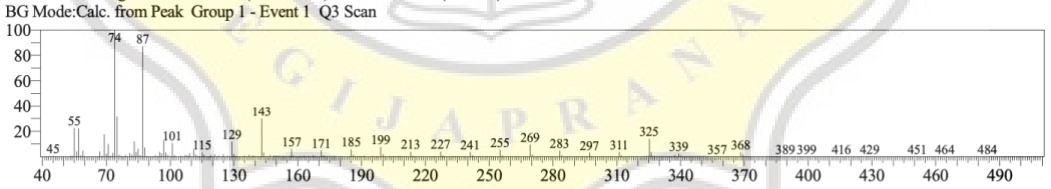
<< Target >>
Line#:22 R.Time:38.210(Scan#:7043) MassPeaks:259
RawMode:Averaged 38.205-38.215(7042-7044) BasePeak:149.00(323491)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



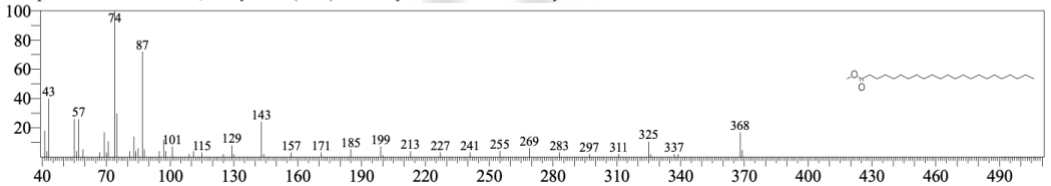
Hit#:1 Entry:166820 Library:Wiley9.lib
SI:96 Formula:C8H5NO6 CAS:603-11-2 MolWeight:211 RetIndex:0
CompName:1,2-Benzenedicarboxylic acid, 3-nitro- (CAS) $$ 3-Nitrophthalic acid $$ Phthalic acid, 3-nitro- $$ m-Nitrophthalic acid $$ AI3-02074 $$ AIDS



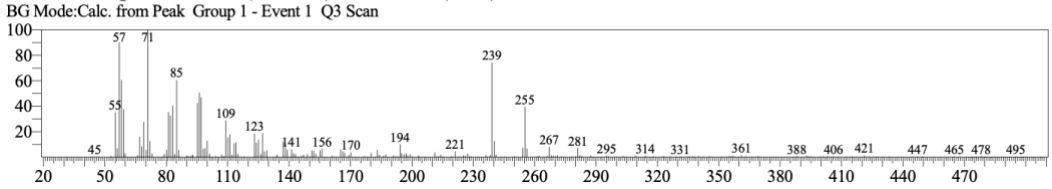
<< Target >>
Line#:23 R.Time:39.410(Scan#:7283) MassPeaks:285
RawMode:Averaged 39.405-39.415(7282-7284) BasePeak:74.05(143894)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



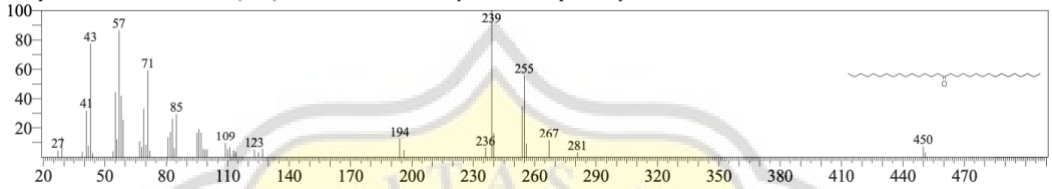
Hit#:1 Entry:500686 Library:Wiley9.lib
SI:94 Formula:C24H48O2 CAS:2433-97-8 MolWeight:368 RetIndex:0
CompName:Tricosanoic acid, methyl ester (CAS) $$ Methyl tricosanoate $$ Methyl tricosanoate $$ TRICOSANOIC ACID ME $$ FAME 23:0 $$ EINECS



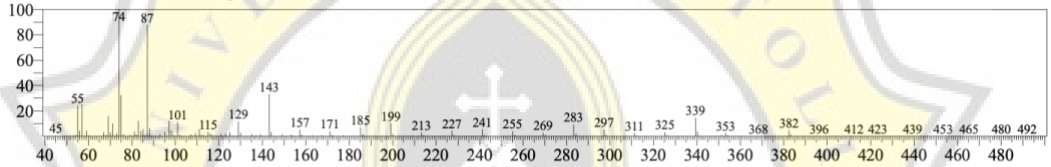
<< Target >>
Line#:24 R.Time:40.780(Scan#:7557) MassPeaks:301
RawMode:Averaged 40.775-40.785(7556-7558) BasePeak:71.05(42365)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



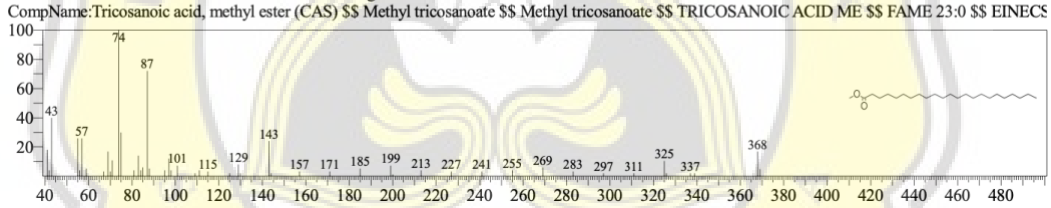
Hit#:1 Entry:589508 Library:Wiley9.lib
SI:82 Formula:C31H62O CAS:502-73-8 MolWeight:450 RetIndex:0
CompName:16-Hentriacontanone (CAS) $$ Palmitone $$ Pentadecyl ketone $$ Dipentadecyl ketone $$ Hebtriacontanone $$ 16-Hebtriacontanone $$ hentr



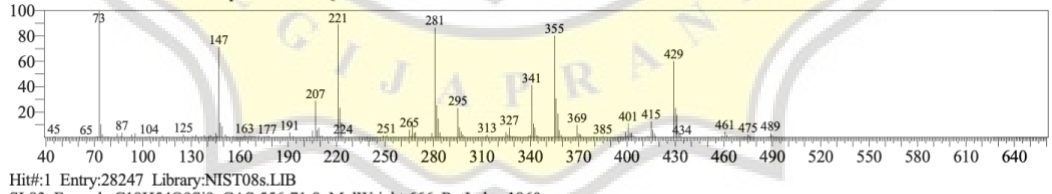
<< Target >>
Line#:25 R.Time:40.935(Scan#:7588) MassPeaks:316
RawMode:Averaged 40.930-40.940(7587-7589) BasePeak:74.05(424297)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



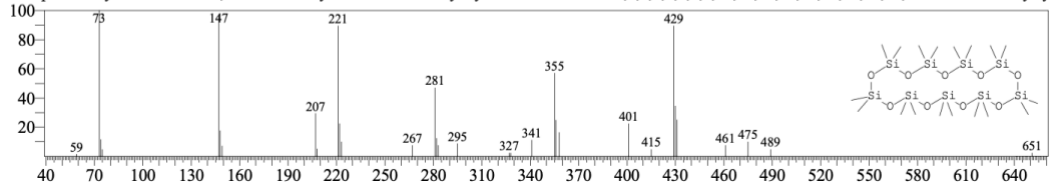
Hit#:1 Entry:500686 Library:Wiley9.lib
SI:91 Formula:C24H48O2 CAS:2433-97-8 MolWeight:368 RetIndex:0
CompName:Tricosanoic acid, methyl ester (CAS) $$ Methyl tricosanoate $$ Methyl tricosanoate $$ TRICOSANOIC ACID ME $$ FAME 23:0 $$ EINECS



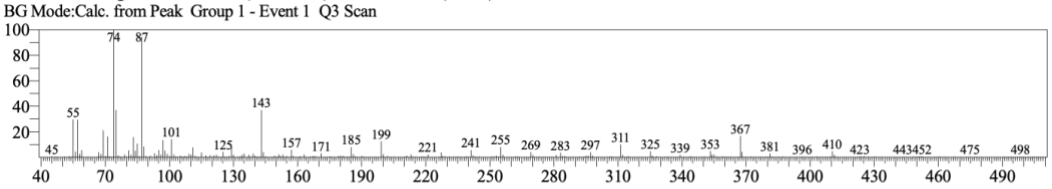
<< Target >>
Line#:26 R.Time:42.030(Scan#:7807) MassPeaks:273
RawMode:Averaged 42.025-42.035(7806-7808) BasePeak:73.05(54924)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



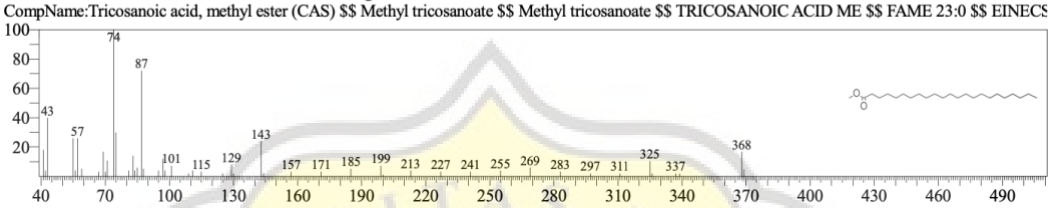
Hit#:1 Entry:28247 Library:NIST08s.LIB
SI:83 Formula:C18H54O9Si9 CAS:556-71-8 MolWeight:666 RetIndex:1860
CompName:Cyclononasiloxane, octadecamethyl- $$ Octadeamethyl-cyclononasiloxane $$ 2,2,4,4,6,6,8,8,10,10,12,12,14,14,16,16,18,18-Octadecamethylcy



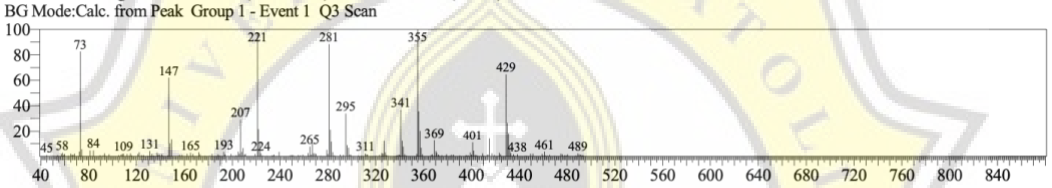
<< Target >>
Line#:27 R.Time:43.815(Scan#:8164) MassPeaks:316
RawMode:Averaged 43.810-43.820(8163-8165) BasePeak:74.05(95223)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



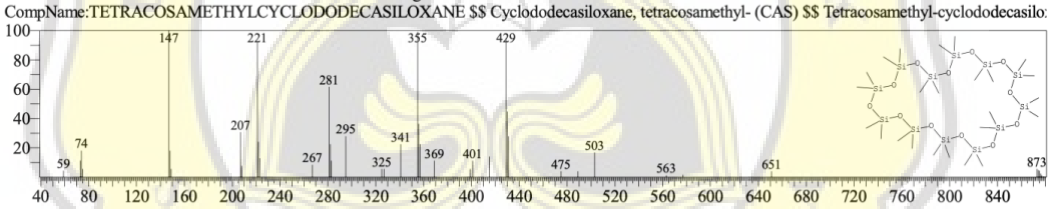
Hit#:1 Entry:500686 Library:Wiley9.lib
SI:88 Formula:C24H48O2 CAS:2433-97-8 MolWeight:368 RetIndex:0
CompName:Tricosanoic acid, methyl ester (CAS) $$ Methyl tricosanoate $$ Methyl tricosanoate $$ TRICOSANOIC ACID ME $$ FAME 23:0 $$ EINECS



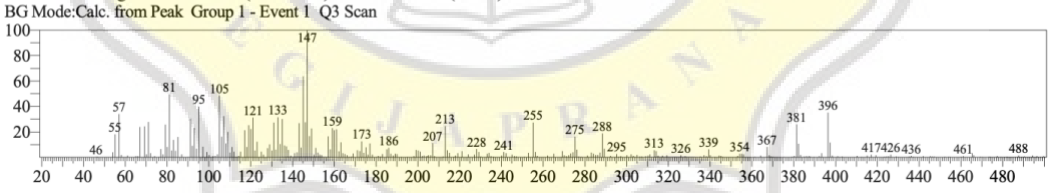
<< Target >>
Line#:28 R.Time:45.665(Scan#:8534) MassPeaks:268
RawMode:Averaged 45.660-45.670(8533-8535) BasePeak:355.05(46651)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



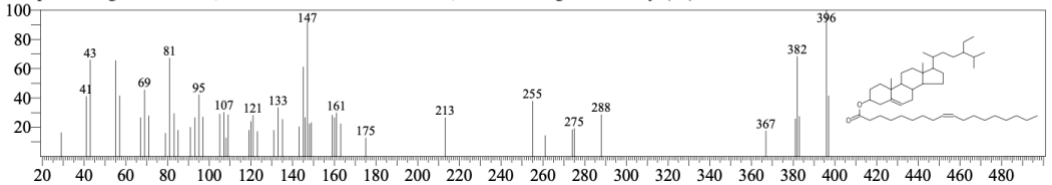
Hit#:1 Entry:660344 Library:Wiley9.lib
SI:83 Formula:C24H72O12Si12 CAS:18919-94-3 MolWeight:888 RetIndex:0
CompName:TETRACOSAMETHYLCYCLODODECASILOXANE $$ Cyclododecasiloxane, tetracosamethyl- (CAS) $$ Tetracosamethyl-cyclododecasilo



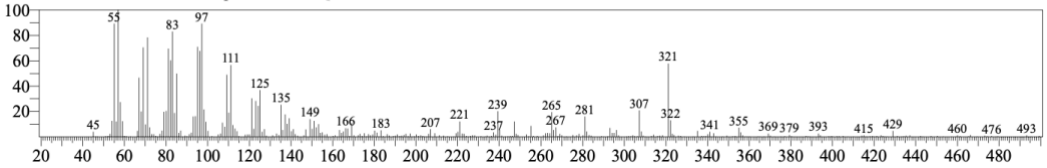
<< Target >>
Line#:29 R.Time:46.455(Scan#:8692) MassPeaks:289
RawMode:Averaged 46.450-46.460(8691-8693) BasePeak:147.10(33653)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



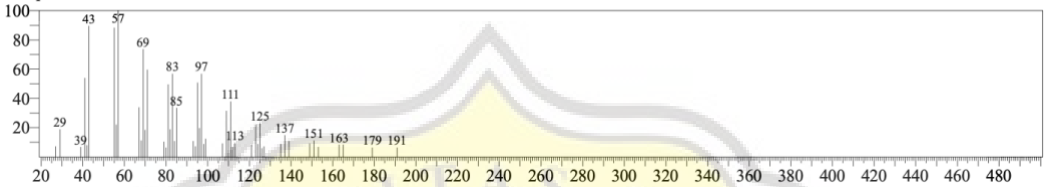
Hit#:1 Entry:653115 Library:Wiley9.lib
SI:84 Formula:C47H82O2 CAS:0-00-0 MolWeight:678 RetIndex:0
CompName:Stigmast-5-en-3-ol, oleate $$ STIGMAST-5-EN-3-OL, OLEAT $$ Stigmast-5-en-3-yl (9Z)-9-octadecenoate $$ STIGMAST-5-EN-3-YL 9-OCT



<< Target >>
Line#:30 R.Time:46.765(Scan#:8754) MassPeaks:342
RawMode:Averaged 46.760-46.770(8753-8755) BasePeak:57.05(60580)
BG Mode:Calc. from Peak Group 1 - Event 1 Q3 Scan



Hit#:1 Entry:662412 Library:Wiley9.lib
SI:80 Formula: CAS:0-00-0 MolWeight:9999 RetIndex:0
CompName:HAHNFETT



Lampiran 12. Surat Persetujuan Etik

SEKOLAH TINGGI ILMU FARMASI YAYASAN PHARMASI SEMARANG
KOMITE ETIK PENELITIAN KESEHATAN (KEPK)
Jalan Letnan Jendral Sarwo Edie Wibowo Km. 1 Plamongansari - Pucanggading - Semarang - 50193
Telepon : 024 - 6706147 ; 6725272 ; Faksimile : 024 - 6706148
Email : kepkstifaryaphar@gmail.com
Website : www.stifar.ac.id

PERSETUJUAN ETIK
ETHICAL APPROVAL

NOMOR : 262/AHW-SW/KEPK/STIFAR/EC/V/2021

Yang bertanda tangan di bawah ini, Ketua Komite Etik Penelitian Kesehatan Stifar Yayasan Pharmasi Semarang, setelah dilaksanakan telaah, pembahasan dan penilaian, dengan ini memutuskan protokol penelitian yang berjudul :

The undersigned, Chairperson of the Stifar Yayasan Pharmasi Semarang Health Research Ethics Committee, after a thorough review, discussion, and assessment, hereby decides on a research protocol entitled :

STUDI TOKSISITAS AKUT ORAL ENKAPSULAT OLEORESIN BIJI PALA (*Myristica fragrans Houtt.*) PADA MENCIT (*Mus musculus*) BETINA GALUR SWISS

Ketua Peneliti : Carissa Nathania Surya
Chief Researcher

Anggota : -
Member

Telah menyetujui protokol tersebut dan disetujui pelaksanaannya
Have agreed to the protocol and approved the implementer

Pada Akhir penelitian, laporan pelaksanaan penelitian harus diserahkan kepada KEPK Stifar Yayasan Pharmasi Semarang. Persetujuan ini berlaku selama 1 (satu) tahun setelah *Ethical Approval* dikeluarkan. Jika ada perubahan protokol dan /atau perpanjangan penelitian, harus mengajukan kembali permohonan kajian etik penelitian (amandemen protocol).

At the end of the study, a report on the implementation of the study must be submitted to KEPK Stifar Yayasan Pharmasi Semarang. This approval is valid for 1 (one) year after the Ethical Approval is issued. If there is a change in protocol and / or extension of research, you must re-submit a request for a study of research ethics (protocol amendment).

Semarang, 21 Mei 2021
Ketua Komite Etik Penelitian Kesehatan
Stifar Yayasan Pharmasi Semarang

apt. A. Ariani Hesti Wulan S., M.Si.Med.

Lampiran 13. Surat Keterangan Penelitian

SEKOLAH TINGGI ILMU FARMASI YAYASAN PHARMASI SEMARANG
LABORATORIUM PUSAT
Jalan Letnan Jendral Sarwo Edie Wibowo Km. 1 Plamongansari - Pucanggading - Semarang - 5019
Telepon : 024 - 6706147 ; 6725272 ; Faksimile : 024 - 6706148
Email : stifar_yaphar@yahoo.com
Website : www.stifar.ac.id

Nomor : 222/EP/SRT/IX/2021
Hal : Surat Keterangan Penelitian

SURAT KETERANGAN

Beserta surat ini kami sampaikan bahwa mahasiswa tersebut di bawah ini:

Nama : Carissa Nathania Surya
Asal : Unika Soegijapranata Semarang

Telah melakukan penelitian Pengujian Toksisitas Akut Pada Mencit Betina di Laboratorium Sekolah Tinggi Ilmu Farmasi Yayasan Pharmasi Semarang pada bulan Agustus 2021.

Demikian surat keterangan ini kami sampaikan, agar dapat digunakan sebagaimana mestinya.

Atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Semarang, 2 September 2021
Kepala Pusat Laboratorium STIFAR

(apt. Erna Prasetyaningrum., M.Sc)
NIY.YP. 040709013

Lampiran 14. Penentuan Jumlah Sampel menggunakan Rumus Federer

(t-1) (n-1)	≥ 15
(5-1) (n-1)	≥ 15
4 (n-1)	≥ 15
4n – 4	≥ 15
4n	≥ 19
n	≥ 4,75 (dibulatkan menjadi 5)

Digunakan 5 kelompok, maka total jumlah sampel :

5 x 5 = 25 mencit betina galur Swiss

Lampiran 15. Hewan Uji

Lampiran 16. Pakan Hewan Uji

Lampiran 17. Contoh Perhitungan Dosis

Contoh perhitungan dosis enkapsulat oleoresin biji pala yang akan diberikan kepada mencit :

- Dosis yang akan dibuat adalah 5, 50, 300, dan 2000 mg/kg BB.
- Pembuatan larutan suspensi Na CMC 0,5% :
  Sebanyak 1,0 g Na CMC didispersikan ke dalam 200,0 ml akuades panas, dibiarkan mengembang selama 15 menit.
- Pembuatan larutan suspensi enkapsulat oleoresin biji pala :
  Enkapsulat oleoresin biji pala ditimbang sebanyak 4 variasi dosis yaitu 5, 50, 300, dan 2000 mg, masing – masing ditambahkan suspensi Na CMC 0,5% hingga 10 ml.
- Volume larutan suspensi enkapsulat oleoresin biji pala yang diberikan :
  Contoh BB mencit = 25 g

  Jumlah enkapsulat dosis 5 mg/kg BB = $\frac{5\ mg}{1.000\ g}\ x\ 25\ g = 0{,}125\ mg$

  Volume larutan yang diberikan = $\frac{0{,}125\ mg}{5\ mg}\ x\ 10\ ml = 0{,}25\ ml$

  Jumlah enkapsulat dosis 50 mg/kg BB = $\frac{50\ mg}{1.000\ g}\ x\ 25\ g = 1{,}25\ mg$

  Volume larutan yang diberikan = $\frac{1{,}25\ mg}{50\ mg}\ x\ 10\ ml = 0{,}25\ ml$

  Jumlah enkapsulat dosis 300 mg/kg BB = $\frac{300\ mg}{1.000\ g}\ x\ 25\ g = 7{,}5\ mg$

  Volume larutan yang diberikan = $\frac{7{,}5\ mg}{300\ mg}\ x\ 10\ ml = 0{,}25\ ml$

  Jumlah enkapsulat dosis 2000 mg/kg BB = $\frac{2000\ mg}{1.000\ g}\ x\ 25\ g = 50\ mg$

  Volume larutan yang diberikan = $\frac{50\ mg}{2000\ mg}\ x\ 10\ ml = 0{,}25\ ml$

Lampiran 18. Hasil Penelitian Tingkah Laku dan Gejala Toksik pada Mencit

Penelitian	30 menit					60 menit					90 menit					120 menit					150 menit					180 menit				
	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4
Kulit dan bulu	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Mata	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Ekor	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Pernapasan	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Cara berjalan	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Kehilangan nafsu makan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+ (2)	+ (1)	+ (4)	+ (3)	-	+ (2)	+ (1)	+ (4)	+ (3)	-	+ (2)	+ (1)	+ (4)	+ (3)
Diare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gemetar / kejang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lemas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Koma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Penelitian	210 menit					4 jam					1 hari					2 hari					3 hari					4 hari				
	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4
Kulit dan bulu	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Mata	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Ekor	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Pernapasan	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Cara berjalan	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Kehilangan nafsu makan	-	+ (2)	+ (1)	+ (4)	+ (3)	-	+ (2)	+ (1)	+ (4)	+ (3)	-	+ (2)	+ (1)	+ (4)	+ (3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gemetar / kejang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lemas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Koma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Penelitian	5 hari					6 hari					7 hari					8 hari					9 hari					10 hari				
	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4
Kulit dan bulu	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Mata	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Ekor	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Pernapasan	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Cara berjalan	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Kehilangan nafsu makan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gemetar / kejang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lemas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Koma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Penelitian	11 hari					12 hari					13 hari					14 hari				
	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4	K	P1	P2	P3	P4
Kulit dan bulu	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Mata	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Ekor	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Pernapasan	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Cara berjalan	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Kehilangan nafsu makan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gemetar / kejang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lemas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Koma	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Keterangan :

- K = Kontrol; P1 = Dosis 5 mg/kg BB; P2 = Dosis 50 mg/kg BB; P3 = Dosis 300 mg/kg BB; P4 = Dosis 2000 mg/kg BB; N = Normal; (+) = Terjadi; (-) = Tidak terjadi
- Setiap perlakuan terdapat 5 ekor mencit

Lampiran 19. Data Penelitian Berat Badan Mencit

Kelompok Perlakuan	Mencit ke-	Berat Badan (gram)							
		0	2	4	6	8	10	12	14
Normal	1	30,5	28,3	29,0	29,9	29,1	30,8	30,6	31,0
	2	34,0	31,0	31,0	32,0	30,8	31,0	32,8	31,0
	3	30,0	27,7	29,0	29,6	28,0	28,5	29,8	28,3
	4	32,5	33,5	35,2	34,6	33,7	35,6	35,5	36,3
	5	20,2	22,0	23,1	21,5	23,4	24,2	21,5	23,2
5 mg/kgBB	2	28,0	29,2	28,7	31,0	31,5	31,0	32,2	32,1
	3	27,0	26,7	25,6	27,7	28,0	27,2	27,8	26,8
	4	27,0	24,4	28,0	27,0	26,5	28,5	28,4	27,4
	5	27,7	26,5	31,0	27,5	26,9	26,0	26,0	25,0
	6	27,7	25,6	26,5	27,4	26,1	29,0	28,3	27,4
50 mg/kgBB	1	29,0	26,2	27,8	29,1	29,4	28,0	28,8	29,3
	2	32,0	25,4	27,0	28,2	27,3	28,0	27,5	27,9
	3	28,0	24,7	27,3	27,6	27,4	27,4	27,5	27,9
	4	29,0	29,5	29,2	30,6	30,0	31,0	30,6	31,6
	5	21,4	22,0	21,5	21,8	22,6	23,8	24,4	24,5
300 mg/kgBB	1	26,5	24,1	26,0	25,2	25,2	24,8	25,4	25,2
	2	26,0	23,6	24,8	24,7	23,8	24,4	23,8	24,6
	3	29,6	28,0	29,5	29,0	28,6	28,3	27,5	29,3
	4	25,1	24,4	25,0	24,7	24,9	25,4	25,2	24,0
	5	25,2	26,5	26,2	26,4	25,8	27,1	27,5	26,8
2000 mg/kgBB	1	26,0	22,6	24,8	24,8	24,7	25,2	25,3	26,2
	2	27,0	25,0	28,0	29,0	26,6	29,5	27,9	29,2
	3	25,2	21,5	23,0	22,5	23,1	23,3	21,5	23,4
	4	32,5	29,1	31,5	30,7	29,0	29,5	30,5	31,0
	5	22,1	23,2	23,5	24,2	23,7	23,5	24,0	24,7

Lampiran 20. Perhitungan Dosis Konversi

Faktor konversi mencit (berat badan 20 gram) ke manusia (berat badan 70 kg) adalah 387,9 (Laurence dan Bacharach, 1964 dalam Amalina, 2009).

Dosis mencit 20 gram	= 0,02 kg/BB x 2000 mg/kgBB
	= 40 mg
Dosis konversi manusia 70 kg	= 40 mg x 387,9
	= 15516 mg
Dosis manusia 50 kg	= 50 kg / 70 kg x 15516 mg
	= 11082 mg
	= 11,08 gram

Lampiran 21. Laporan Antiplagiasi

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