

LAMPIRAN

Lampiran 1. Perhitungan

1. Perhitungan % Rendemen Ekstrak Etanol

$$\begin{aligned} \% \text{ Rendemen} &= \frac{\text{berat ekstrak kental akhir}}{\text{berat awal sampel}} \times 100\% \\ &= \frac{36,641 \text{ gram}}{300 \text{ gram}} \times 100\% \\ &= 6,676\%. \end{aligned}$$

2. Perhitungan % Inhibisi Ekstrak Metanol

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

a) Konsentrasi 5 ppm

Dik A. Blanko = 0,99

A. Sampel = 0,72

Dit % Inhibisi =?

$$\% \text{ inhibisi} = \frac{0,99 - 0,72}{0,99} \times 100\%$$

$$\frac{0,27}{0,99} \times 100\%$$

$$= 0,272 \times 100\%$$

$$= 27,2\%$$

b) Konsentrasi 10 ppm

Dik A. Blanko = 0,99

A. Sampel = 0,55

Dit % Inhibisi =?

$$\% \text{ inhibisi} = \frac{0,99 - 0,55}{0,99} \times 100\%$$

$$\frac{0,44}{0,99} \times 100\%$$

$$= 0,444 \times 100\%$$

$$= 44,444 \%$$

c) Konsentrasi 15 ppm

Dik A. Blanko = 0,99

A. Sampel = 0,39

Dit % Inhibisi =?

$$\% \text{ inhibisi} = \frac{0,99 - 0,39}{0,99} \times 100\%$$

$$\frac{0,6}{0,99} \times 100\%$$

$$= 0,606 \times 100\%$$

$$= 60,606\%$$

- d) Konsentrasi 20 ppm
 Dik A. Blanko= 0,99
 A. Sampel = 0,01
 Dit % Inhibisi=.....?

$$\% \text{ inhibisi} = \frac{0,99-0,01}{0,99} \times 100\%$$

$$\frac{0,98}{0,99} \times 100\%$$

$$= 0,989 \times 100\%$$

$$= 98,989 \%$$

3. Perhitungan % Inhibisi Ekstrak Vitamin C

- a. Konsentrasi 0,25 ppm
 Dik A. Blanko= 0,809
 A. Sampel = 0,649
 Dit % Inhibisi=.....?

$$\% \text{ inhibisi} = \frac{0,809-0,649}{0,809} \times 100\%$$

$$\frac{0,16}{0,809} \times 100\%$$

$$= 0,197 \times 100\%$$

$$= 19,777\%$$

- b. Konsentrasi 0,5 ppm
 Dik A. Blanko= 0,809
 A. Sampel = 0,544
 Dit % Inhibisi=.....?

$$\% \text{ inhibisi} = \frac{0,809-0,544}{0,809} \times 100\%$$

$$\frac{0,265}{0,809} \times 100\%$$

$$= 0,327 \times 100\%$$

$$= 32,756 \%$$

- c. Konsentrasi 1,5 ppm
 Dik A. Blanko= 0,809
 A. Sampel = 0,355
 Dit % Inhibisi=.....?

$$\% \text{ inhibisi} = \frac{0,809-0,355}{0,809} \times 100\%$$

$$\frac{0,454}{0,809} \times 100\%$$

$$= 0,561 \times 100\%$$

$$= 56,118\%$$

- d. Konsentrasi 2,5 ppm
 Dik A. Blanko= 0,809
 A. Sampel = 0,102
 Dit % Inhibisi=.....?

$$\% \text{ inhibisi} = \frac{0,809-0,102}{0,809} \times 100\%$$

$$\frac{0,707}{0,809} \times 100\%$$

$$= 0,873 \times 100\%$$

$$= 87,391 \%$$

4. Perhitungan Rendemen Ekstrak

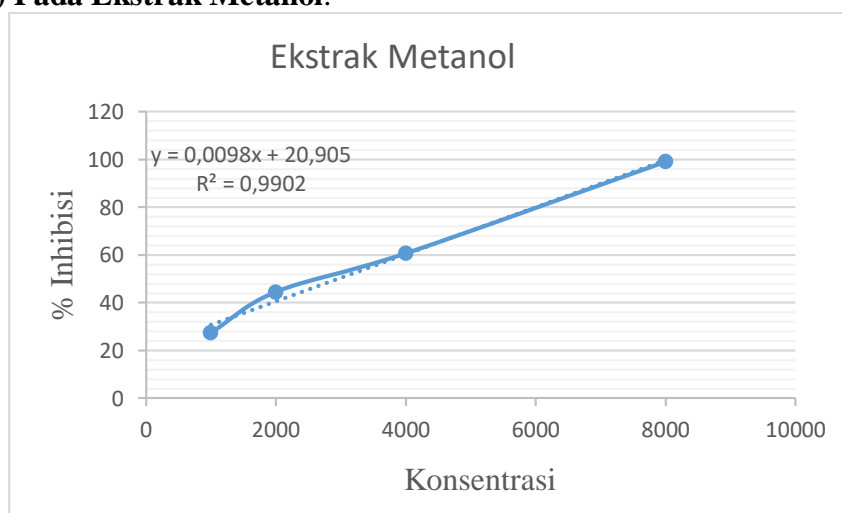
Dik berat simplisia akhir = 366,41 gram

berat awal = 300 gram

$$\% \text{ rendemen} = \frac{366,41}{300} \times 100\%$$

$$= 6,676 \%$$

5. Grafik Hubungan Konsentrasi (ppm) Sampel Dengan Persentase Inhibisi (%) Pada Ekstrak Metanol.



6. Perhitungan Nilai IC₅₀ Ekstrak Metanol

Dik y = 50

a = 0.0098

b = 20.905

y = ax + b

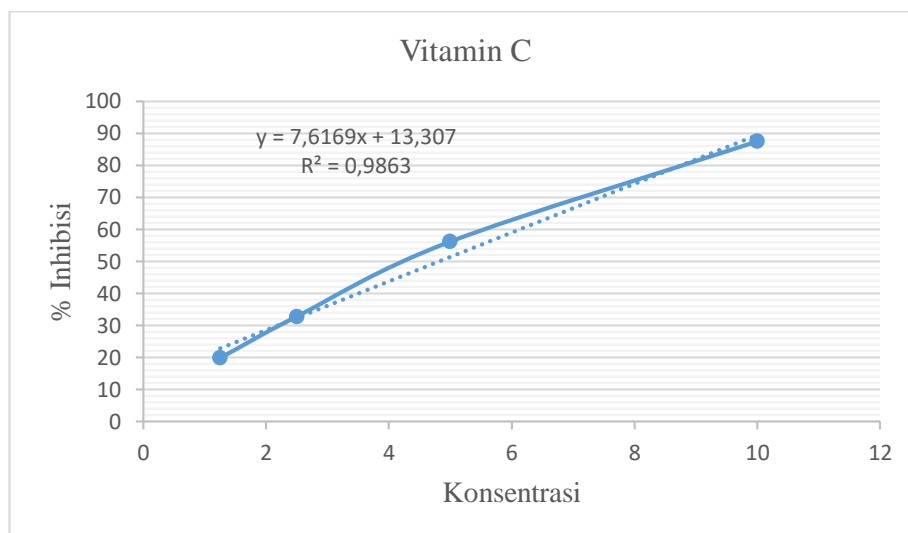
= ax = y - b

x = (y - b) / a

= (50 - 20.905) / 0.0098

= 5.554.55 µg/mL

7. Grafik Hubungan Konsentrasi (ppm) Sampel Dengan Persentase Inhibisi (%) Pada vitamin C.



8. Perhitungan Nilai IC₅₀ Ekstrak Vitamin C

Dik $y = 50$

$a = 7.616$

$b = 13.307$

$y = ax + b$

$= ax = y - b$

$x = (y - b) / a$

$= (50 - 7.616) / 7.616$

$= 5.5651260504 \mu\text{g/mL}$

Lampiran 2. Foto-Foto Penelitian

Preparasi Sampel



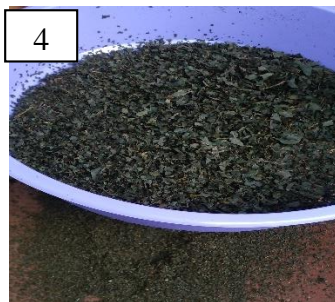
1. Daun kering *Pluchea indica* L.



2. Digunting



3. Diblender



4. Diayak

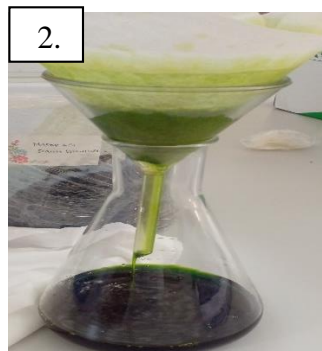


5. Serbuk daun beluntas

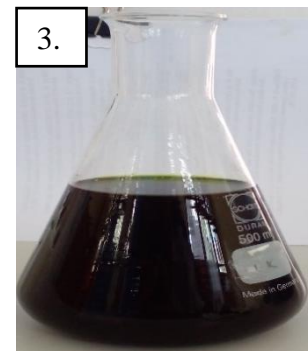
Ekstraksi secara maserasi



1. Perendaman serbuk *Pluchea indica* L.

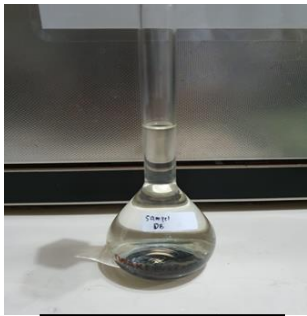


2. Penyaringan



3. Ekstrak etanol 96%

Uji Antioksidan



Sampel daun
beluntas



Larutan DPPH



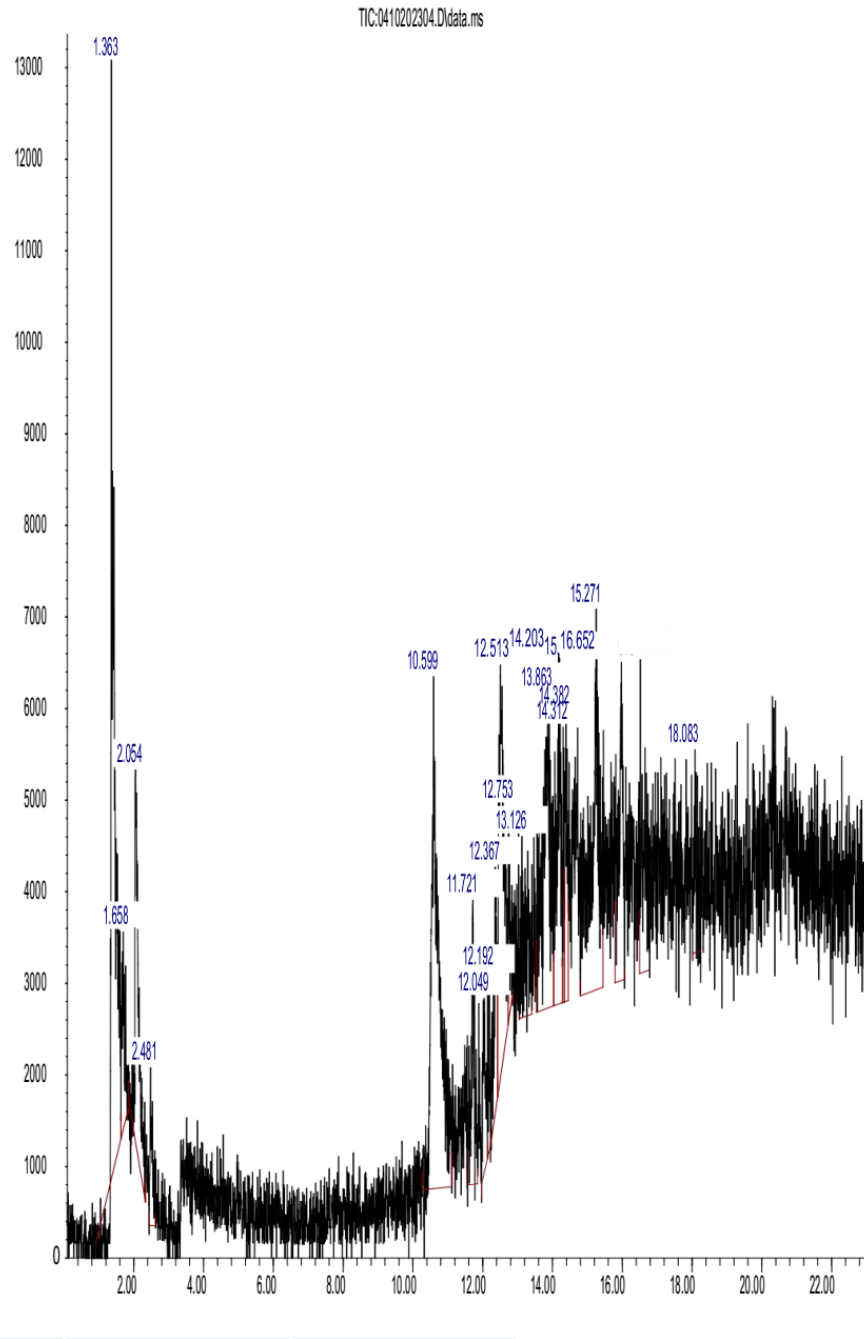
Hasil inkubasi

Lampiran 3. Hasil Analisis GC-MS



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Abundance



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LibrarySearchReport

DataPath:D:\MassHunter\GCMS\1\data\Eksternal2023\
 Data File : 0410202304.D
 AcqOn :04Oct202315:11
 Operator: KNJ
 Sample :146LU15
 Misc :PelarutEthanol
 ALSVial:2SampleMultiplier: 1

Search Libraries:D:\MassHunter\Library\NIST02.L MinimumQuality:85
 D:\MassHunter\Library\NIST17.L Minimum Quality:85
 D:\MassHunter\Library\Wiley275.L

UnknownSpectrum:Apex
 IntegrationEvents:ChemStationIntegrator-autoint1.e

| Pk# | RTArea% | Library/ID | Ref# | CAS#Qual |
|-----|--|---|---|----------|
| 1 | 1.36311.51D:\MassHunter\Library\Wiley275.L | Phenol, 3,5-bis (1,1 dimethylethyl) CAS)\$1- Am1933000078-96-69 ino-2-propanol \$\$ Threamine \$\$ Iso propanolamine\$\$Monoisopropanolam ine \$\$ 2-Hydroxypropylamine \$\$ 2-H ydroxypropanamine \$\$ 2-Hydroxy-1-p roplamine \$\$ 1-Methyl-2-aminoetha nol \$\$ 2-Amino-1-methylethanol \$\$ 1-Amino-2-hydroxy 2-Propanol,1-amino-(CAS)\$1-Am1934000078-96-69 ino- 2-propanol \$\$ Threamine \$\$ Iso propanolamine\$\$Monoisopropanolam ine \$\$ 2-Hydroxypropylamine \$\$ 2-H ydroxypropanamine \$\$ 2-Hydroxy-1-p roplamine \$\$ 1-Methyl-2-aminoetha nol \$\$ 2-Amino-1-methylethanol \$\$ 1-Amino-2-hydroxy Carponiumchloride | 7919800000-00-09 | |
| 2 | 1.6582.28D:\MassHunter\Library\Wiley275.L | Silane, ethyl- (CAS) \$\$ Ethylsilan \$\$ 1-Silapropane \$\$ C2H5SiH3 2-Propanamine, N-methyl- (CAS) \$\$ Methylisopropylamine \$\$ 2-Methylam inopropane\$\$Isopropylmethylamine \$\$ N-Methylisopropylamine \$\$ Ethy lamine, N,1-dimethyl- \$\$ N-iso-pro pyl-N-methylamine\$\$N-Isopropylme thylamine \$\$ N,1-Dimethylethylamin 2-Propanamine, N-methyl- (CAS) \$\$ Methylisopropylamine \$\$ 2-Methylam inopropane\$\$Isopropylmethylamine | 700002814-79-17 e 1610004747-21-17 1611004747-21-17 | |

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\$\$ N-Methylisopropylamine \$\$ Ethylamine, N,1-dimethyl- \$\$ N-iso-propyl-N-methylamine \$\$ N-Isopropylmethylamine \$\$ N,1-Dimethylethylamin

- 3 2.0545.66D:\MassHunter\Library\Wiley275.L
 Neoptahydyena-(CAS) \$\$ Dim2091000067-68-564 ethyl sulfoxide \$\$ DMSO \$\$ DMS 70 \$\$ DMS90 \$\$ (DMSO) \$\$ SQ9453 \$\$ Dimethyl sulphoxide \$\$ Hyadur \$\$ Dolicur \$\$ Dromisol \$\$ Durasorb \$\$ Dimexide \$\$ Somipront \$\$ Demsoxroxy \$\$ Infiltrina \$\$ Methylsulfoxide \$\$ SQ 9453roxye
 DIMETHYLPHOSPHINE-D1 838040244-78-87
 Ethanol,2-mercapto-(CAS) \$\$ 2-Me2103000060-24-25 rcaptoethanol \$\$ 2-ME \$\$ 2-HYDROXY-ETHANETHIOL \$\$ Thioglycol \$\$ Thio monoglycol \$\$ Monothioglycol \$\$ 1-Ethanol-2-thiol \$\$ Thioethylene glycol \$\$ 2-Mercapto-1-ethanol \$\$ 2-Hydroxyethanethiol \$.beta.-Mercaptoethanol \$\$ 2-M
- 4 2.4811.50D:\MassHunter\Library\Wiley275.L
 Methane,sulfonylbis-(CAS) \$\$ Dim4717000067-71-05 ethyl sulfone \$\$ Methyl sulfone \$\$ Methylsulfonylmethane \$\$ Sulphonylbismethane \$\$ Dimethyl sulphone \$ \$(CH3)2SO2
 1,4-Cyclohexadiene,1-methyl-(CAS4866004313-57-95) \$\$ 1-Methyl-1,4-cyclohexadiene \$ \$2,5-Dihydrotoluene
 Disulfide,dimethyl(CAS) \$\$ 2,3-D4735000624-92-05 ithiabutane \$\$ Dimethyl disulfide \$\$ Methyl disulfide \$\$ (Methyldithio)methane \$\$ Dimethyldisulphide \$\$ (CH3S)2 \$\$ UN2381
- 5 10.59915.52D:\MassHunter\Library\Wiley275.L
 1,2-benzendicarboxylic acid-37123000099-76-372 ster (CAS) \$\$ Methyl p-hydroxybenzoate \$\$ 4-HYDROXYBENZOIC ACID-METHYLESTER \$\$ 4-HYDROXYBENZOIC ACID, METHYLESTER \$\$ METHYLESTER OF 4-HYDROXY-BENZOICACID \$\$ Abiol \$\$ Septosol \$\$ Moldex \$\$ Nipagin \$\$ Paridol \$\$ Solbrol \$\$
 Benzoicacid,4-hydroxy-,methyle37127000099-76-372 ster (CAS) \$\$ Methyl p-hydroxybenzoate \$\$ 4-HYDROXYBENZOICACID-METH

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YL ESTER 4-HYDROXYBENZOIC ACID,
 METHYLESTER METHYLESTER OF 4-HYDROXY-BENZOIC ACID
 MolDEX Nipagin Paridol
 Solbrol
 (+)-(1S,3R)-2,2,3-trimethyl-4-methylidenecyclopentane-1-carbaldehyde
 Cyclopentanecarboxaldehyde, 2,2,3-trimethyl-4-methylene-, (1S-trans)-

- 6 11.7213.30D:\MassHunter\Library\Wiley275.L
 Benzaldehyde, O-ethyl oxime (CAS) 34613013858-87-29
 BENZALDOXIME O-ETHYLETHYL ETHER
 Ethylbenzaldoxime
 1H-Pyrrolo[2,3-b]pyridine, 2-methyl-3-nitro- (CAS) 61179023616-50-49
 2-METHYL-3-NITRO-1H-PYRROLO(2,3-B)PYRIDINE
 S-Triazolo(1,5-A)pyrimidine, 5-methyl-7-ethylamino- (1,2,4)Triazolo(1,5-a)pyrimidin-7-amine, N-ethyl-5-methyl-7-ethylamino-s-triazolo(1,5-a)pyrimidine 61211051806-90-7 5
- 7 12.0492.06D:\MassHunter\Library\Wiley275.L
 3-ethyl-5-(3-hydroxyphenyl)-1-oxa-3-azacyclopentane 77166000000-00-0 9
 DL-3-ALPHA-ISOPROPYL-CIS-9.BETA.108291000000-00-09, 10.BETA.-DIMETHYL-1-DECALONE
 3-(phenyltelluro)-1-oxaspiro[4.5]decane, 3-(phenyltelluro)- 208906122823-53-49
- 8 12.1920.83D:\MassHunter\Library\Wiley275.L
 (-)-Isopulegol Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]-(CAS) 40277000089-79-214
 I-Isopulegol Isopulegol
 p-Menth-8-en-3-ol, (1R,3R,4S)-(-)-iso-pulegol (-)-L-Isopulegol
 (-)-Isopulegol Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]-(CAS) 40276000089-79-210
 I-Isopulegol Isopulegol
 p-Menth-8-en-3-ol, (1R,3R,4S)-(-)-iso-pulegol (-)-L-Isopulegol
 Hexahydropyridine, 1-methyl-4-(4,5-dihydroxyphenyl)- 4,592495000000-00-09

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- 912.3672.78D:\MassHunter\Library\Wiley275.L
 (8.PSI.)-DRIM-9(11)-ENE\$\$Naphtha91941031140-13-322
 lene, decahydro-1,1,4a,6-tetrameth
 yl-5-methylene-(CAS)\$\$Naphthale
 ne, decahydro-1,1,4a,6-tetramethyl
 -5-methylene-,(4aS,8aS)-(-)-
 Isoadamantane\$\$2,5-Methano-1H-in25273019026-94-922 dene,
 octahydro- (CAS) \$\$ Protoada
 mantane \$\$ Tricyclo[4.3.1.0(3,8)]d
 ecane\$\$2,5-Methanoindan,hexahyd
 ro- \$\$ Tricyclo[4.3.1.0]decane \$\$
 Tricyclo[4.3.1.03,8]decane
 1,13-Tetradecadiene(CAS) 78993 021964-49-8 14
- 10 12.5138.50D:\MassHunter\Library\Wiley275.L
 Palmitat acid [3.392233056781-89-647
 .1.1(3,7)]dec-2-ylester,(1.alpha
 .,2.beta.,3.beta.,5.alpha.,7.beta.
)-(CAS)\$\$4E-THIOCYANATO-ADAMANT
 AN-2-ONE\$\$Thiocyanicacid,4-oxo
 tricyclo[3.3.1.13,7]dec-2-yl ester
 ,(1.alpha.,2.beta.,3.beta.,5.alph
 a.,7.beta.)-
 Thiocyanicacid,4-oxotricyclo[3.392234056781-88-547
 .1.1(3,7)]dec-2-ylester,(1.alpha
 .,2.alpha.,3.beta.,5.alpha.,7.beta
 .)-(CAS)\$\$4A-THIOCYANATO-ADAMAN
 TAN-2-ONE\$\$Thiocyanicacid,4-ox
 otricyclo[3.3.1.13,7]dec-2-yl este
 r,(1.alpha.,2.alpha.,3.beta.,5.al
 pha.,7.beta.)-
 Benzenamine,N,2-dimethyl-(CAS)\$15283000611-21-232
 \$ N-Methyl-o-toluidine (CAS) \$\$ N,
 o-Dimethylaniline\$\$N,2-Dimethyla
 niline \$\$ o,N-Dimethylaniline \$\$ 2
 ,N-Dimethylaniline\$\$o-Toluidine,
 N-methyl-\$\$N,2-Dimethylbenzenam
 ine
- 11 12.7531.26D:\MassHunter\Library\Wiley275.L
 (3S,4R,5R,6R)-4,5-Bis(hydroxymethy55631000000-00-012
 l)-3,6-dimethylcyclohexene
 (3S,4R,5S,6R)-4,5-Bis(hydroxymethy55343004727-83-712
 l)-3,6-dimethylcyclohexene \$\$ (3S,
 4R,5R,6R)-4,5-Bis(hydroxymethyl)-3
 ,6-dimethylcyclohexene
 (2,5-dioxohexyl)(diethoxy)phospon13442500000-00-012
 ate

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- 12 13.1263.21D:\MassHunter\Library\Wiley275.L
 E-3-methyl-2-octenolide\$(5H)-O39802127974-39-435
 xoninone, 6,7,8,9-tetrahydro-4-met
 hyl-,(E)-
 chloromethyl-7-chlorododecanoate\$163069080419-03-025
 \$Dodecanoicacid,7-chloro-,chlo
 romethyl ester
 hydroxymethylcyclododecane\$\$Cycl83425001892-12-222
 ododecanemethanol \$\$ Cyclododecylm
 ethanol
- 13 13.8639.42D:\MassHunter\Library\Wiley275.L
 4-Pentylcyclohexyl-4-(4-Propylcyclohexyl)cyclohexanecarboxylate
 2-Cyclohexen-1-one,4-[3-(.beta.-d265593000000-00-010
 -glucopyranosyloxy)-1-butenyl]-4-h
 ydroxy-3,5,5-trimethyl-, tetraacet
 ate, [R-[R@,S@-(E)]]-
 hydroxymethylcyclododecane\$\$Cycl83425001892-12-210
 ododecanemethanol \$\$ Cyclododecylm
 ethanol
- 14 14.2035.59D:\MassHunter\Library\Wiley275.L
 Quinic acid-13,14,15,16,17,194029082079-85-430
 9-hexanorlabdane\$\$Naphtho[2,1-b]
 furan, dodecahydro-6,9a-dimethyl-,
 [3aS-(3a.alpha.,5a.alpha.,6.alpha
 .,9a.beta.,9b.alpha.)]]-(CAS)
 benzyl-n-hexylsulfide 93841 034005-03-3 22
 (R)-[8-methyl-5-(phosphonoxy)methyl-3,4-dihydro[4,3-e]-1,3-oxazin-3
 -yl]propanoicacid\$\$2H-Pyrido[4,
 3-e]-1,3-oxazine-3(4H)-aceticacid
 .,alpha.,8-dimethyl-5-[(phosphono
 oxy)methyl]-, (R)-
- 15 14.3121.03D:\MassHunter\Library\Wiley275.L
 (Tetrahydroxycyclopentadienone)tri164567000000-00-046
 carbonyliron(0)
 (tetrahydroxycyclopentadienone)tri164566117696-75-046
 carbonyliron(0) \$\$ Iron, tricarbon
 yl[(2,3,4,5-eta.)-2,3,4,5-tetrahy
 droxy-2,4-cyclopentadien-1-one]-\$
 \$2,4-Cyclopentadien-1-one,2,3,4,
 5-tetrahydro-, iron complex
 Thiosulfuricacid(H2S2O3),S-(2-aminoethyl) ester \$2909002937-53-338
 ester \$\$ Thiosulfuric a
 cid, S-(2-aminoethyl) ester \$\$ Cys
 teamine,S-sulfo-\$Cysteaminesul fonic
 acid \$\$ S-.beta.-Aminoethyl thiosulfuric
 acid \$\$ S-(2-Aminoethyl)

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l)hydrogenthiosulfate\$\$2-Amino
ethanethiol hydro

- 16 14.3822.54D:\MassHunter\Library\Wiley275.L
7,7-Dimethyl-6-methylidene-5-(2'-o121760091186-55-937
xo-1'-propyl)-1-oxaspiro[2.6]nonan
-4-one\$\$1-Oxaspiro[2.6]nonan-4-o
ne, 7,7-dimethyl-6-methylene-5-(2-
oxopropyl)- (CAS)
Ammoniumd-.alpha.-bromocamphor-.p197284014575-84-922 i.-
sulfonate \$\$ Bicyclo[2.2.1]hept
ane-7-methanesulfonic acid, 3-brom
o-1,7-dimethyl-2-oxo-, ammoniumsa
lt, [1R-(endo,anti)]- (CAS) \$\$ Amm
onium (+)-.alpha.-bromocamphor-.pi
-sulfonate\$\$8-Bornanesulfonica cid,
3-bromo-2-ox
2.alpha.,3.alpha.-epoxy-10,10-dime76664125295-57-022
thyl-7.alpha.H-tricyclo[7.1.1.0(2,
7)]undecane
- 17 15.27111.22D:\MassHunter\Library\Wiley275.L
1-Dodecanamine [4,592495000000-00-012
-dihydroxyphenyl]-
CYCLODECANONE 40751 000000-00-0 10
(Tetrahydroxycyclopentadienone)tri164567000000-00-010
carbonyliron(0)
- 18 15.9755.38D:\MassHunter\Library\Wiley275.L
Hydrazinecarboxiamide (C153618000112-39-038 AS) \$\$
Methyl palmitate \$\$ Methyl
hexadecanoate\$\$Methyln-hexadeca
noate \$\$ Uniphat A60 \$\$ Metholene
2216 \$\$ Palmitic acid methyl ester
\$\$ Palmitic acid, methyl ester \$\$
n-Hexadecanoicacidmethylester
\$\$PALMITICACID-
Methyl8-oxooctanoate 57082 004316-48-7 25
METHYL15-ACETYLHYDROXYPALMITATE 198262 000000-00-0 25
- 19 16.6524.00D:\MassHunter\Library\Wiley275.L
Benzena acetic acid-.269664007542-37-222 alpha.-D-
glucopyranosyl-(14)-O-[O-
2,6-diamino-2,6-dideoxy-.beta.-L-i
dopyranosyl-(13)-.beta.-D-ribofura
nosyl-(15)]-2-deoxy-\$\$Paromomyci
n i
2-Nitro-4,6-dichlorophenol\$\$Phen92080000609-89-212 ol,
2,4-dichloro-6-nitro- (CAS) \$\$
2,4-Dichloro6-nitrophenol\$\$2,4
-Dichlor-6-nitrofenol

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10-BROMO-7-HYDROXY-11-IODOLAURENE241875072008-57-210
 Phenol,4-bromo-2-(1,2-dimethyl
 -3-methylenecyclopentyl)-3-iodo-5-
 methyl-, (1R-cis)- (CAS)

2018.0832.40D:\MassHunter\Library\Wiley275.L
 N-Methyl-cyclohexylamino-2-cyclohexene-2-one
 2-(cyclohexylmethylamino)-(CAS)
 Oxirane,tetradecyl-Hexadecane
 ,1,2-epoxy-Hexadecyleneoxide
 Hexadecane
 Hexadecaneepoxide
 Hexadeceneepoxide
 Hexadeceneepoxide
 -C55538
 2L,4L-DIHYDROXYEICOSANE 188930000000-00-032

GCMS2023_041023.MThuOct0508:03:252023

Mengetahui,

Dr.MohammadHolil
 FactoryLab.Manager

Surabaya,05Oktober2023
 PenanggungjawabPengujian,

Kusnarijanto
 Lab.ProductTechnicalTestSPV

Created By :
 LaboratoryProduct
 05-10-2023 14:40

Digitally Signed By :
 LaboratoryProduct
 Technical Test SPV
 Date:05-10-2023 14:41

Digitally Signed By :
 FactoryLab.Manager
 Date:06-10-2023 06:20

DAFTAR RIWAYAT HIDUP



Penulis dilahirkan di Tunuahu Kabupaten Malaka Propinsi Nusa Tenggara Timur pada 18 November 2000, sebagai anak ketujuh dari tujuh bersaudara dari pasangan Bapak Yohanes Fatin dan Ibu Oliva Seuk. Pada tahun 2007 penulis mengikuti pendidikan pada SDK Tunuahu, tamat dan berijazah tahun 2013, penulis selanjutnya melanjutkan pendidikan di SMPN Satu Atap Oetfo dan berijazah tahun 2016 dan penulis melanjutkan pendidikan pada SMAN Io Kufeu tamat dan berijazah tahun 2019. Pada tahun 2019 penulis mendaftarkan diri di Program Studi Kimia Fakultas Pertanian, Sains Dan Kesehatan Universitas Timor melalui jalur Mandiri hingga selesainya penyusunan skripsi ini, dengan judul **“KARAKTERISASI DAN UJI AKTIVITAS ANTIOKSIDAN EKSTRAK DAUN BELUNTAS (*Pluchea indica* L.) ASAL PULAU TIMOR”**.

MOTTO

**“KAMU ADALAH JAWABAN DARI SEMUA DOAKU
KEPADA TUHAN”
(Filipi 1:3-4)**

Kefamenanu, Maret 2024



Noviana Lay