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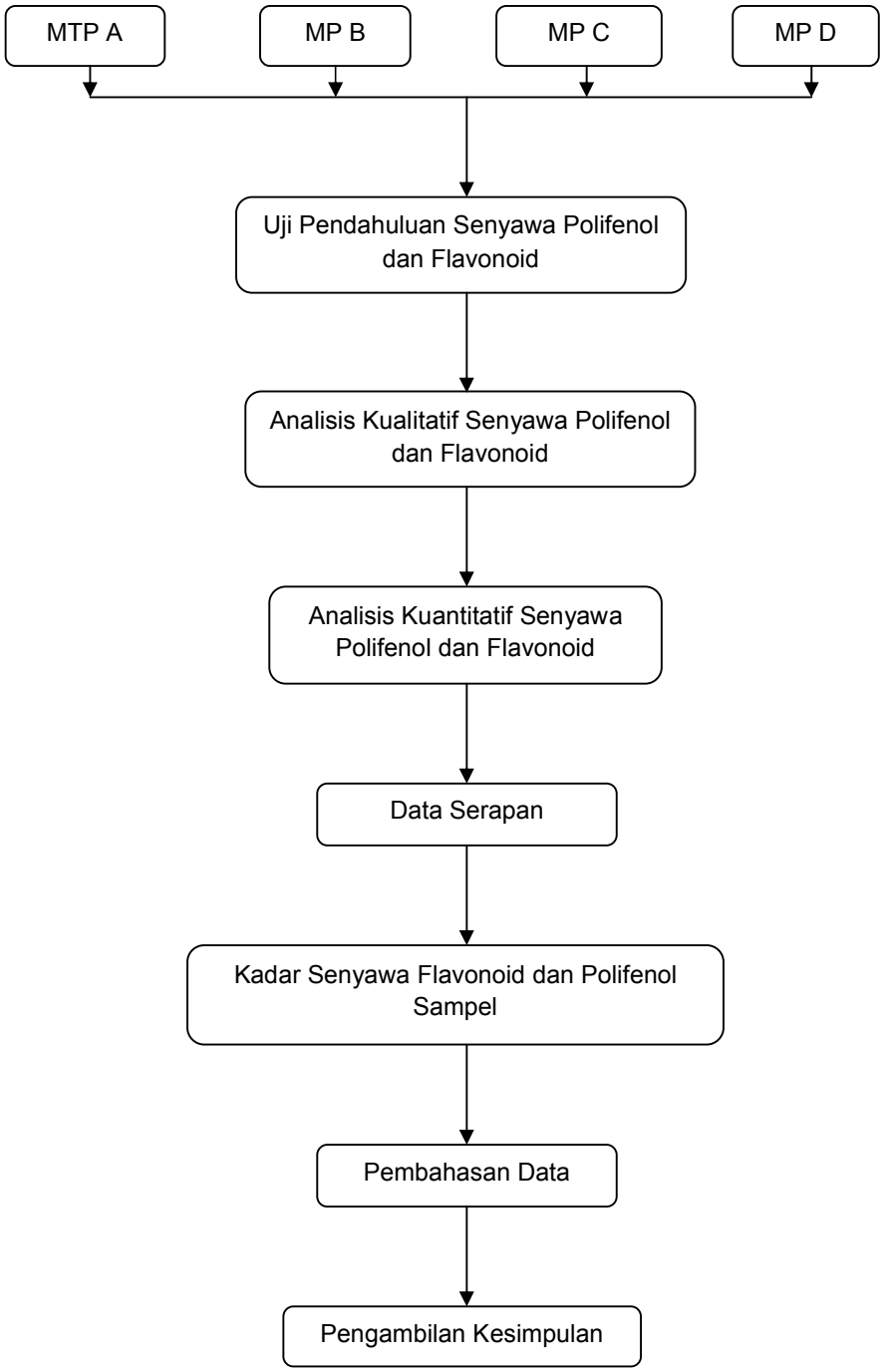
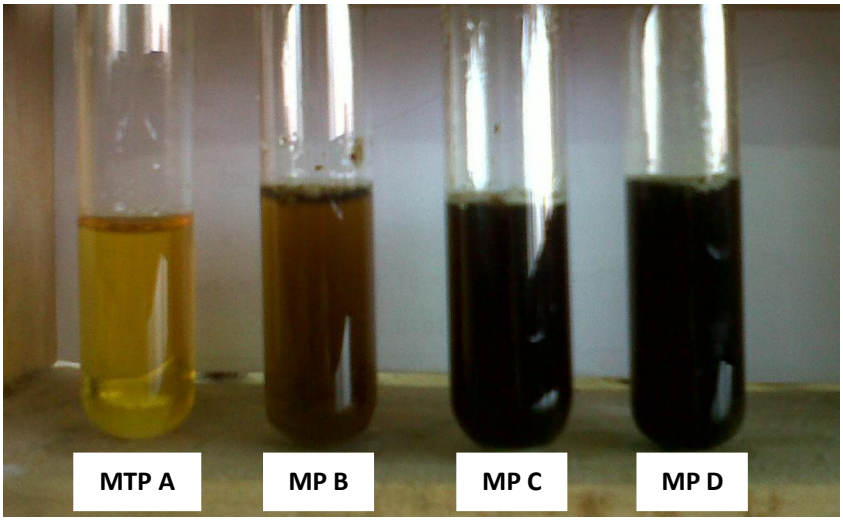
LAMPIRAN I

SKEMA KERJA

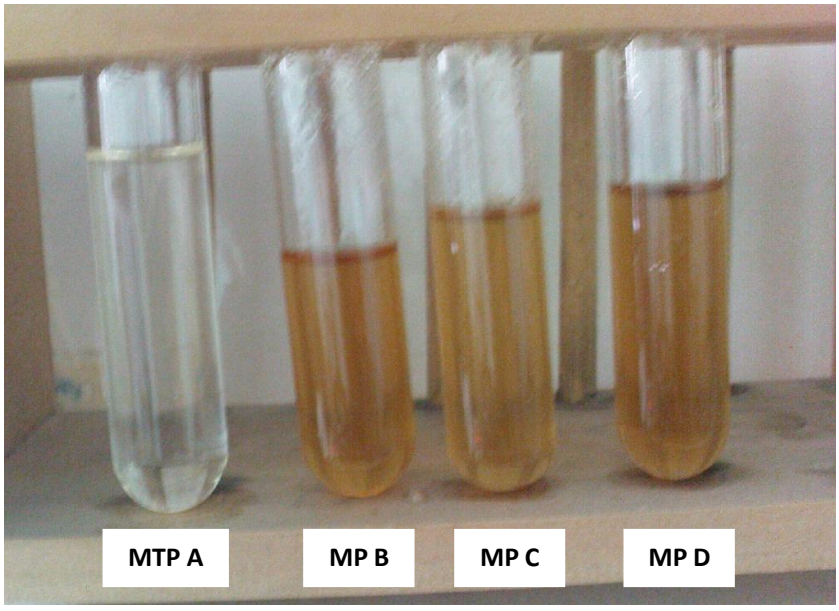


LAMPIRAN II

UJI PENDAHULUAN SENYAWA POLIFENOL DAN FLAVONOID SAMPEL



Gambar 16. Uji pendahuluan senyawa polifenol

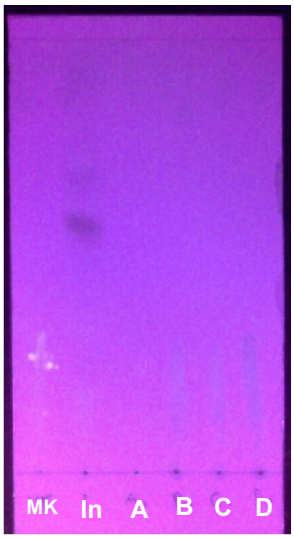


Gambar 17. Uji pendahuluan senyawa flavonoid

LAMPIRAN III

KROMATOGRAM LAPIS TIPIS MADU PALIASA

I



II

III

IV

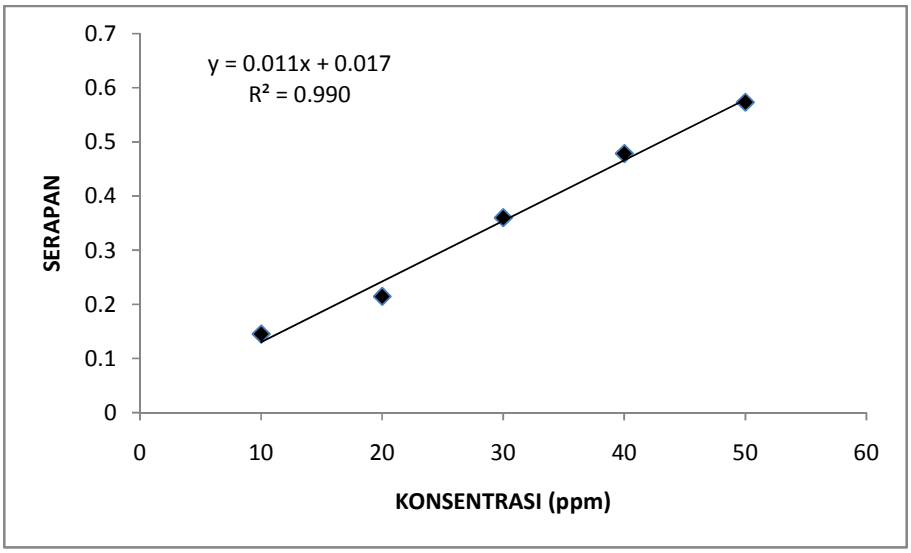
Gambar 18. Kromatogram lapis tipis madu paliasa

Ket.

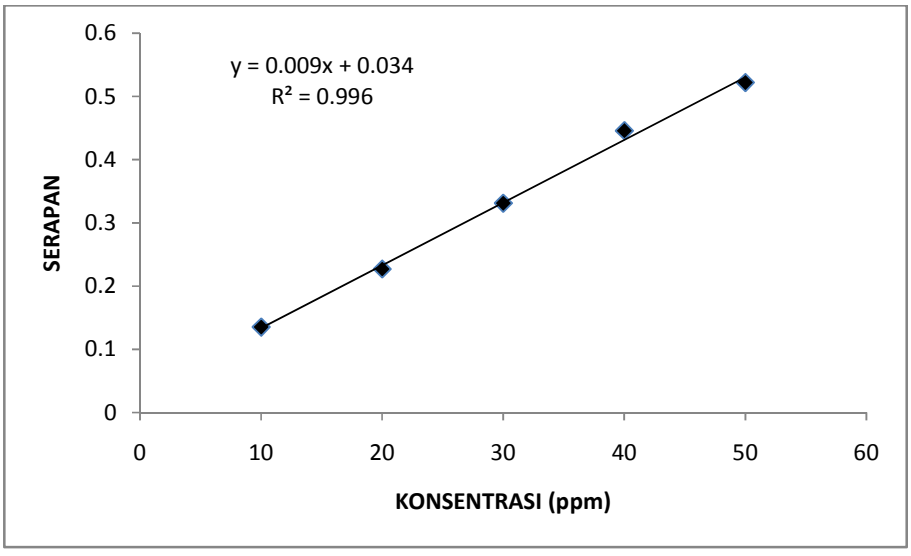
A : madu tanpa paliasa A
B : madu paliasa B
C : madu paliasa C
D : madu paliasa C
In : infus paliasa 10 %
MK : madu kontrol
I : dilihat dengan sinar UV 254 nm
II : dilihat dengan sinar UV 366 nm
III : setelah disemprot dengan pereaksi semprot $AlCl_3$
IV : setelah disemprot dengan pereaksi semprot $FeCl_3$

LAMPIRAN IV

KURVA BAKU ASAM GALAT DAN QUERSETIN



Gambar 19. Kurva baku asam galat



Gambar 20. Kurva baku quersetin

LAMPIRAN V

CONTOH PERHITUNGAN KANDUNGAN SENYAWA POLIFENOL SAMPEL

A. Madu Paliasa B

Berat sampel : 1,0002 g

Volume Analisis : 10 ml

Faktor Pengenceran : 10

Serapan : 0,3983

Persamaan kurva baku asam galat adalah **Y = 0,0112 X + 0,0179**

Sehingga kandungan senyawa fenolik sampel adalah

$$C = \frac{0,3983-0,0179}{0,0112}$$

= 33,9610 bpj

= 33,9610 mg/L

= 0,0334 mg/ml

$$\text{Kadar fenolik sampel (\%)} = \frac{V\ (ml)\ .\ C\ (mg/ml)\ .\ Fp}{Bs\ (mg)} \times 100\ \%$$

$$= \frac{10\ ml\ .\ 0,0334\ mg/ml\ .\ 10}{1000,2\ mg} \times 100\ \%$$

= 0,34 %

B. Madu Paliasa C

Berat sampel : 1,0001 g

Volume Analisis : 10 ml

Faktor Pengenceran : 10

Serapan : 0,3989

Persamaan kurva baku asam galat adalah **Y = 0,0112 X + 0,0179**

Sehingga kandungan senyawa fenolik sampel adalah

$$C = \frac{0,3989-0,0179}{0,0112}$$

= 34,016 bpj

= 34,016 mg/L

= 0,0340 mg/ml

$$\text{Kadar fenolik sampel (\%)} = \frac{V\ (ml)\ .\ C\ (mg/ml)\ .\ Fp}{Bs\ (mg)} \times 100\ \%$$

$$= \frac{10\ ml\ .\ 0,0340\ mg/ml\ .\ 10}{1000,1\ mg} \times 100\ \%$$

= 0,34 %

C. Madu Paliasa D

Berat sampel : 1,0001 g

Volume Analisis : 10 ml

Faktor Pengenceran : 10

Serapan : 0,4366

Persamaan kurva baku asam galat adalah **Y = 0,0112 X + 0,0179**

Sehingga kandungan senyawa fenolik sampel adalah

$$C = \frac{0,4366-0,0179}{0,0112}$$

= 37,380 bpj

= 37,380 mg/L

= 0,0374 mg/ml

$$\text{Kadar fenolik sampel (\%)} = \frac{V\ (ml)\ .\ C\ (mg/ml)\ .\ Fp}{Bs\ (mg)} \times 100\ \%$$

$$= \frac{10\ ml\ .\ 0,0374\ mg/ml\ .\ 10}{1000,1\ mg} \times 100\ \%$$

= 0,37 %

LAMPIRAN VI

CONTOH PERHITUNGAN KANDUNGAN SENYAWA FLAVONOID SAMPEL

D. Madu Paliasa B

Berat sampel : 1,0001 g

Volume Analisis : 10 ml

Faktor Pengenceran : 5

Serapan : 0,2112

Persamaan kurva baku quersetin adalah **Y = 0,0099 X + 0,0345**

Sehingga kandungan flavonoid sampel adalah

$$C = \frac{0,2112-0,0345}{0,0099}$$

= 17,846 bpj

= 17,846 mg/L

= 0,0178 mg/ml

$$\text{Kadar flavonoid sampel (\%)} = \frac{V\ (ml)\ .\ C\ (mg/ml)\ .\ Fp}{Bs\ (mg)} \times 100\ \%$$

$$= \frac{10\ ml\ .\ 0,0178\ mg/ml\ .\ 5}{1000,1\ mg} \times 100\ \%$$

= 0,09 %

E. Madu Paliasa C

Berat sampel : 1,0002 g

Volume Analisis : 10 ml

Faktor Pengenceran : 5

Serapan : 0,2435

Persamaan kurva baku quersetin adalah **Y = 0,0099 X + 0,0345**

Sehingga kandungan flavonoid sampel adalah

$$C = \frac{0,2435-0,0345}{0,0099}$$

= 21,115 bpj

= 21,115 mg/L

= 0,0211 mg/ml

$$\text{Kadar flavonoid sampel (\%)} = \frac{V\ (ml)\ .\ C\ (mg/ml)\ .\ Fp}{Bs\ (mg)} \times 100\ \%$$

$$= \frac{10\ ml\ .\ 0,0211\ mg/ml\ .\ 5}{1000,2\ mg} \times 100\ \%$$

= 0,11 %

F. Madu Paliasa D

Berat sampel : 1,0002 g

Volume Analisis : 10 ml

Faktor Pengenceran : 5

Serapan : 0,2645

Persamaan kurva baku quersetin adalah **Y = 0,0099 X + 0,0345**

Sehingga kandungan flavonoid sampel adalah

$$C = \frac{0,2645-0,0345}{0,0099}$$

= 23,228 bpj

= 23,228 mg/L

= 0,0232 mg/ml

$$\text{Kadar flavonoid sampel (\%)} = \frac{V\ (ml)\ .\ C\ (mg/ml)\ .\ Fp}{Bs\ (mg)} \times 100\ \%$$

$$= \frac{10\ ml\ .\ 0,0232\ mg/ml\ .\ 5}{1000,2\ mg} \times 100\ \%$$

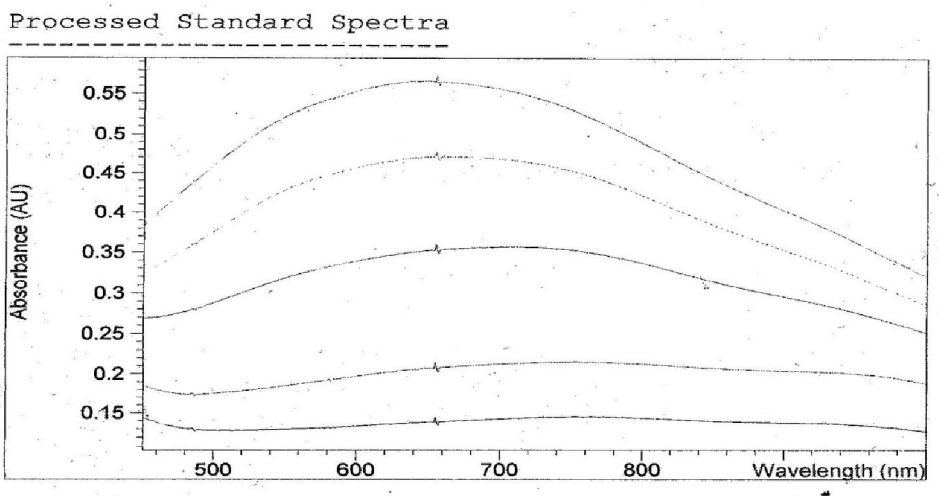
= 0,12 %

LAMPIRAN VII
FOTO SAMPEL

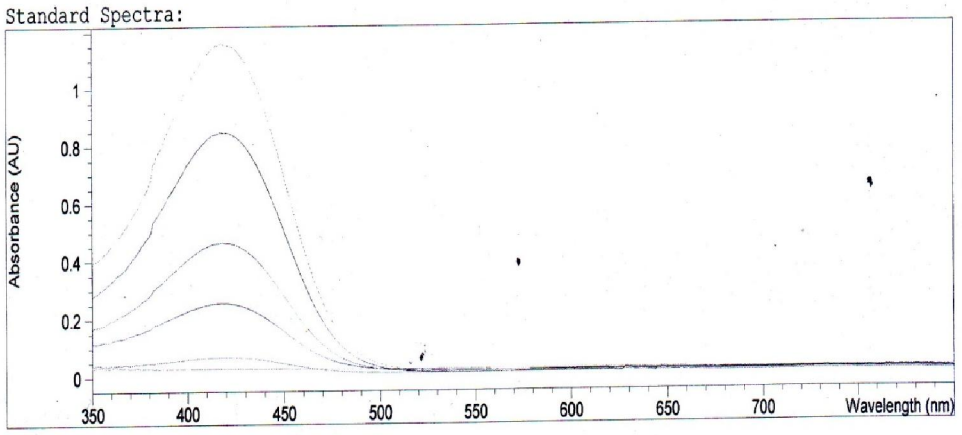
Gambar 21. Foto daun paliasa (*Kleinhovia hospita* Linn.)

Gambar 22. Foto Sampel Madu Paliasa (A, B, C, D)

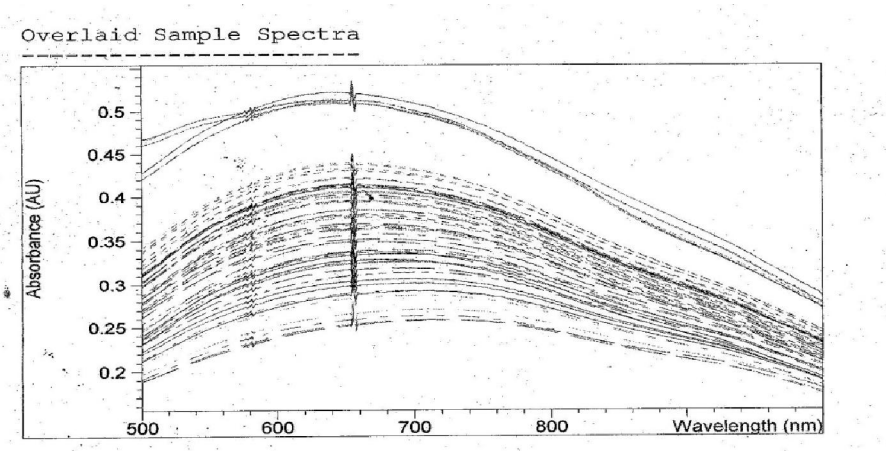
LAMPIRAN VIII
KURVA SERAPAN SAMPEL PADA ANALISIS KUANTITATIF SENYAWA POLIFENOL DAN FLAVONOID



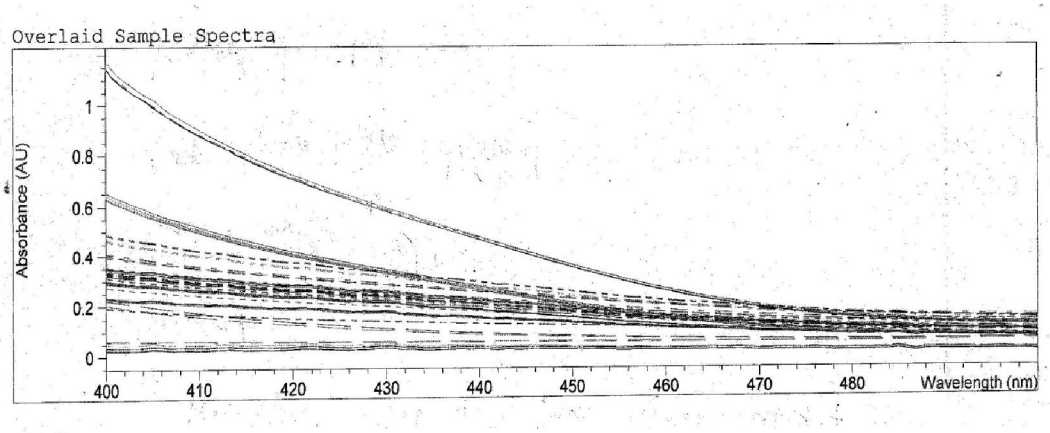
Gambar 23. Kurva serapan baku asam gallat



Gambar 23. Kurva serapan baku quersetin



Gambar 25. Kurva serapan sampel pada analisis kuantitatif senyawa fenolik



Gambar 26. Kurva serapan sampel pada analisis kuantitatif senyawa flavonoid

LAMPIRAN IX
KOMPOSISI REAGEN FOLIN CIOCALTEAU

Komposisi reagen Folin Ciocalteu yaitu (39, 40) :

- Natrium Tungstat (Na_2WO_4)	100 g
- Natrium Molibdat (Na_2Mo0_4)	25 g
- Asam Fosfat (H_2PO_4)	50 ml
- Asam Klorida (HCl)	100 ml
- Litium Sulfat ($LiSO_4$)	150 g
- Brom P (Br_2)	10 tetes
- Air suling	1000 ml