LAMPIRAN

Lampiran 1. Hasil Determinasi

DIREKTORAT PENGELOLAAN KOLEKSI ILMIAH
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Laman: www.brin.go.id

Nomor : B-1406/IV/DI.05.07/5/2022 20 Mei 2022
Lampiran : -
Perihal : Hasil Identifikasi/Determinasi Tumbuhan

Yth.
Bpk./Ibu/Sdr(i). **Aprilita Rina Yanti Eff**
NIDN : 0318046802
Universitas Esa Unggul

Bersama ini kami sampaikan hasil identifikasi/determinasi tumbuhan yang Saudara kirimkan ke "Herbarium Bogoriense", Direktorat Pengelolaan Koleksi Ilmiah BRIN Cibinong, adalah sebagai berikut :

No.	No. Kol.	Jenis	Suku
1.	Tanaman Pegagan	*Centella asiatica* (L.) Urb.	Apiaceae

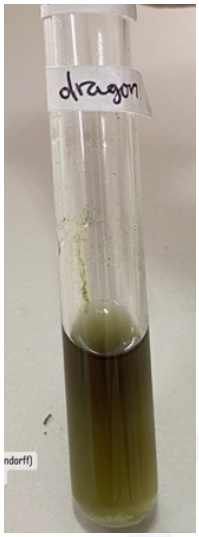
Demikian, semoga berguna bagi Saudara.

Plt. Direktorat Pengelolaan Koleksi Ilmiah
Badan Riset dan Inovasi Nasional

TT ELEKTRONIK

Dr. Ir. Hendro Wicaksono, M.Sc., Eng

Lampiran 2. Skrining Fitokimia



Alkaloid (-)
Reagen dragendorff

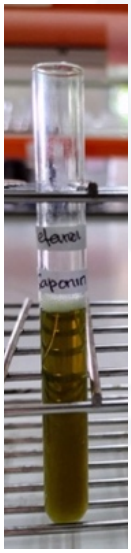
Alkaloid (-)
Reagen mayer

Flavonoid (-)

Triterpenoid (+)

Steroid (+)

Tanin (+)



Saponin (+)

Lampiran 3. Perhitungan Larutan Uji

a. Aliskiren

- 2000 ppm
  10 mg/5 mL
- 1000 pmm
  $M_1V_1 = M_2V_2$
  2000 x V_1 = 5 x 1000
  $V_1 = \frac{5\ x\ 1000}{2000}$
  V_1 = 2,5 mL
- 100 ppm
  $M_1V_1 = M_2V_2$
  1000 x V_1 = 10 x 100
  $V_1 = \frac{10\ x\ 100}{1000}$
  V_1 = 1 mL
- 2,5 ppm
  $M_1V_1 = M_2V_2$
  100 x V_1 = 5 x 2,5
  $V_1 = \frac{5\ x\ 2{,}5}{100}$
  V_1 = 0,125 mL
- 5 ppm
  $M_1V_1 = M_2V_2$
  100 x V_1 = 5 x 5
  $V_1 = \frac{5\ x\ 5}{100}$
  V_1 = 0,25 mL
- 10 ppm
  $M_1V_1 = M_2V_2$
  100 x V_1 = 5 x 10
  $V_1 = \frac{5\ x\ 10}{100}$
  V_1 = 0,5 mL
- 20 ppm
  $M_1V_1 = M_2V_2$
  100 x V_1 = 5 x 20
  $V_1 = \frac{5\ x\ 20}{100}$
  V_1 = 1 mL

- 40 ppm
  $M_1V_1 = M_2V_2$
  $100 \times V_1 = 5 \times 40$
  $V_1 = \frac{5 \ x \ 40}{100}$
  $V_1 = 2$ mL

b. Asiatikosida

- 1000 ppm
  5 mg/5 mL

- 100 ppm
  $M_1V_1 = M_2V_2$
  $1000 \times V_1 = 10 \times 100$
  $V_1 = \frac{10 \ x \ 100}{1000}$
  $V_1 = 1$ mL

- 2,5 ppm
  $M_1V_1 = M_2V_2$
  $100 \times V_1 = 5 \times 2{,}5$
  $V_1 = \frac{5 \ x \ 2{,}5}{100}$
  $V_1 = 0{,}125$ mL

- 5 ppm
  $M_1V_1 = M_2V_2$
  $100 \times V_1 = 5 \times 5$
  $V_1 = \frac{5 \ x \ 5}{100}$
  $V_1 = 0{,}25$ mL

- 10 ppm
  $M_1V_1 = M_2V_2$
  $100 \times V_1 = 5 \times 10$
  $V_1 = \frac{5 \ x \ 10}{100}$
  $V_1 = 0{,}5$ mL

- 20 ppm
  $M_1V_1 = M_2V_2$
  $100 \times V_1 = 5 \times 20$
  $V_1 = \frac{5 \ x \ 20}{100}$
  $V_1 = 1$ mL

- 40 ppm
  $M_1V_1 = M_2V_2$
  $100 \times V_1 = 5 \times 40$
  $V_1 = \frac{5 \ x \ 40}{100}$
  $V_1 = 2$ mL

c. Ekstrak Etanol 96% Daun Pegagan

- 1000 ppm
  10 mg/10 mL

- 50 ppm
  $M_1V_1 = M_2V_2$
  $1000 \times V_1 = 5 \times 50$
  $V_1 = \frac{5 \ x \ 50}{1000}$
  $V_1 = 0{,}25$ mL

- 100 ppm
  $M_1V_1 = M_2V_2$
  $1000 \times V_1 = 5 \times 100$
  $V_1 = \frac{5 \ x \ 100}{1000}$
  $V_1 = 0{,}5$ mL

- 200 ppm
  $M_1V_1 = M_2V_2$
  $1000 \times V_1 = 5 \times 200$
  $V_1 = \frac{5 \ x \ 200}{1000}$
  $V_1 = 1$ mL

- 400 ppm
  $M_1V_1 = M_2V_2$
  $1000 \times V_1 = 5 \times 400$
  $V_1 = \frac{5 \ x \ 400}{1000}$
  $V_1 = 2$ mL

- 800 ppm
  $M_1V_1 = M_2V_2$
  $100 \times V_1 = 5 \times 800$
  $V_1 = \frac{5 \ x \ 800}{1000}$
  $V_1 = 4$ mL

Lampiran 4. Perhitungan IC_{50}

a. Aliskiren

y = ax + b

50 = 0,9308x + 92,886

$x = \frac{50 - 92,886}{0,9308}$

x = 1

b. Asiatikosida

y = ax + b

50 = 57,344x + 78,468

$x = \frac{50 - 78,468}{57,344}$

x = -0,496

x = 2,086

c. Ekstrak Etanol 96% Daun Pegagan

y = ax + b

50 = 12,487x + 50,958

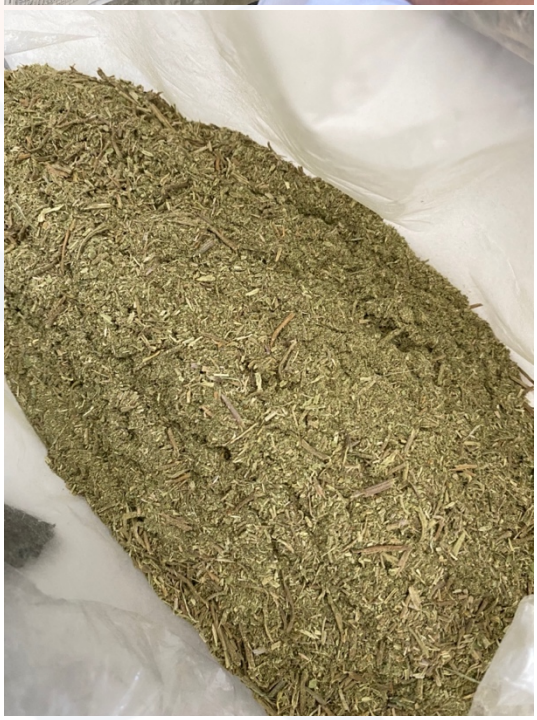
$x = \frac{50 - 50,958}{12,487}$

x = -0,077

x = 0,838

Lampiran 5. Rangkaian proses penelitian

a. Proses penggrinderan



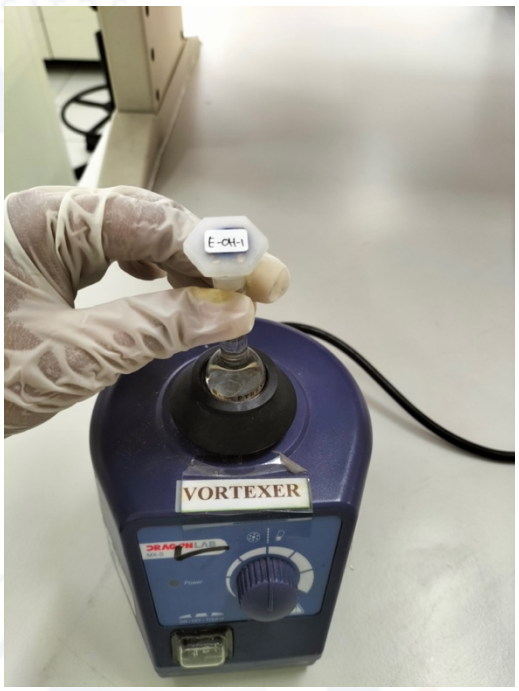
b. Proses Ekstraksi

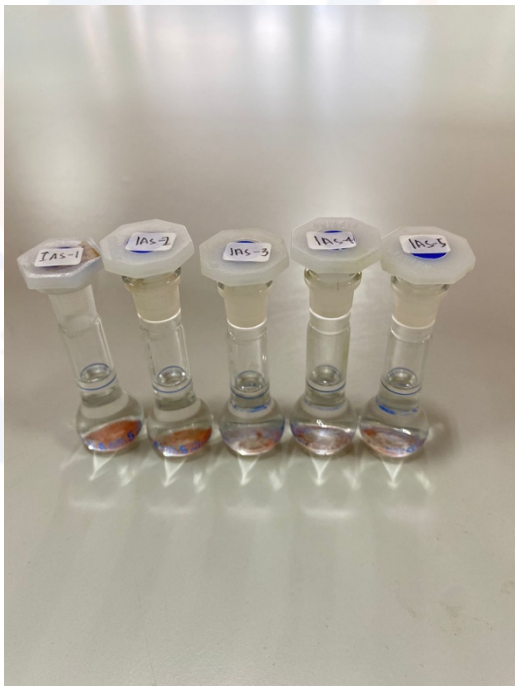
c. Proses *rotary evaporator*

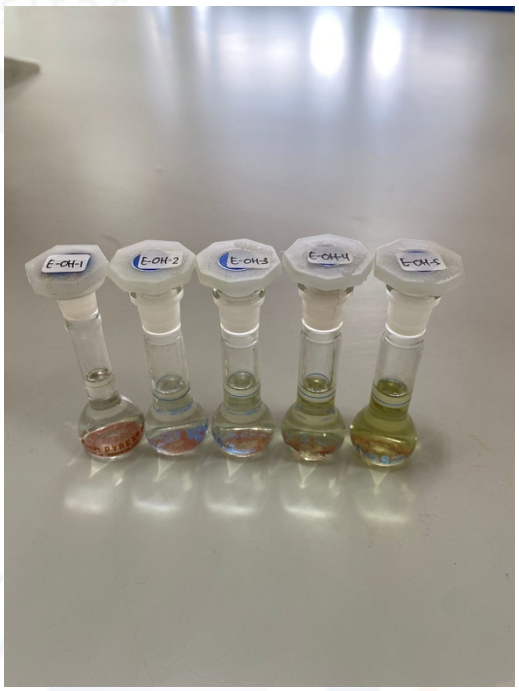
d. Proses Pembuatan Larutan Uji


TER-2-5
Asiaticoside
Assay : ≥ 95% (HPLC)
5 mg

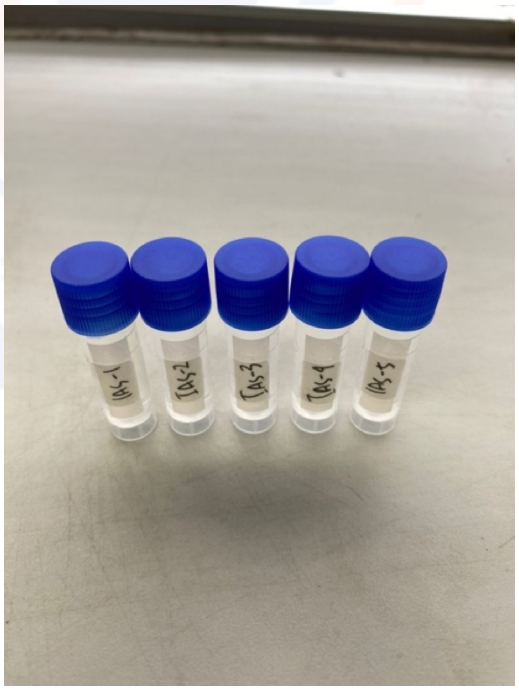

TAS-1
VORTEXER

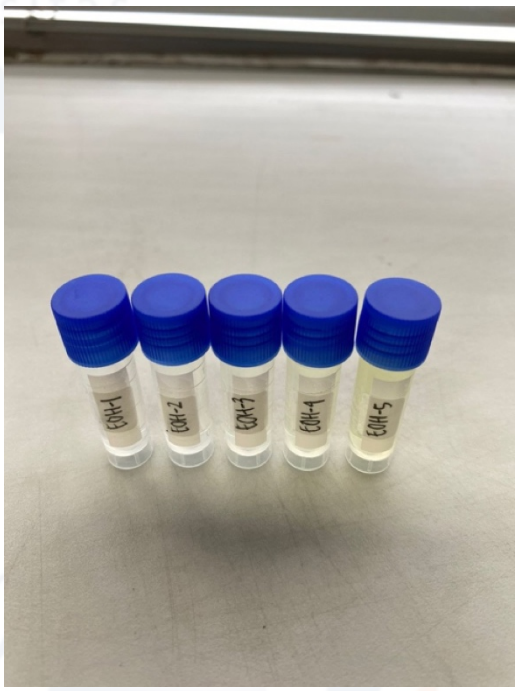

E-OH-1
VORTEXER


IAS-1
IAS-2
IAS-3
IAS-4
IAS-5



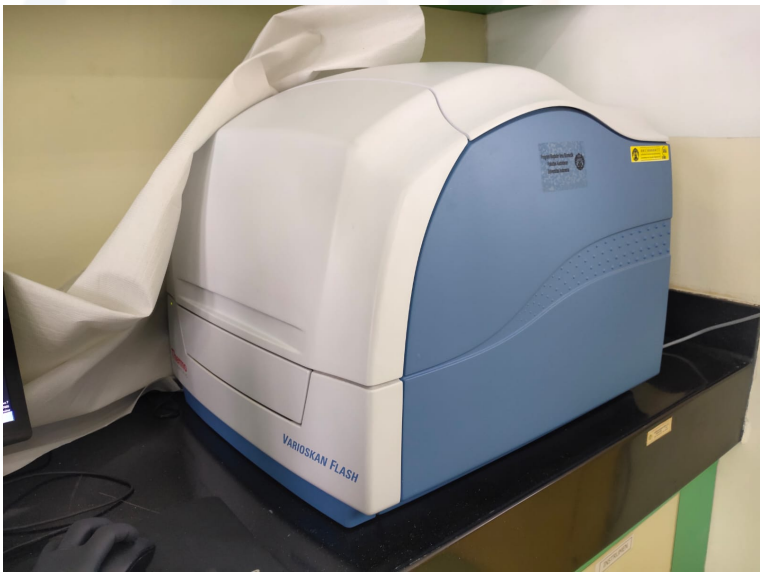
e. Proses Pengujian Renin Inhibitor




EOH-1
EOH-2
EOH-3
EOH-4
EOH-5


LIT
Cayman
CHEMICAL
www.caymanchem.com


Thermo-Shaker
PST-60HL


VARIOSKAN FLASH