

**LAMPIRAN**Lampiran 1 *Microplate 96-well (F0-F3)*

	1	2	3	4	5	6	7	8	9	10	11	12
A	D	D	D	E1	E1	E1	GE1	GE1	GE1	A1	A1	A1
B	B	B	B	E2	E2	E2	GE2	GE2	GE2	A2	A2	A2
C				E3	E3	E3	GE3	GE3	GE3	A3	A3	A3
D				E4	E4	E4	GE4	GE4	GE4	A4	A4	A4
E				E5	E5	E5	GE5	GE5	GE5	A5	A5	A5
F				E6	E6	E6	GE6	GE6	GE6	A6	A6	A6
G												
H												

Keterangan :

- B = Blanko (Etanol 96%)  
 D = DPPH  
 E1 – E6 = Variasi konsentrasi Ekstrak Etanol Daun Salam + DPPH  
 GE1 – GE6 = Variasi konsentrasi Gel Ekstrak Etanol Daun Salam + DPPH  
 A1 – A6 = Variasi Asam Askorbat + DPPH

## Lampiran 2 Determinasi Tanaman



UNIVERSITAS INDONESIA  
FAKULTAS MATEMATIKA DAN  
ILMU PENGETAHUAN ALAM

DEPARTEMEN BIOLOGI  
Gedung E Fakultas Matematika dan Ilmu Pengetahuan Alam  
Kampus UI Depok 16424  
Telp. +62-21 727 0163, +62-21 7884 9008, Fax. +62-21 7884 9010  
[www.biologi.ui.ac.id](http://www.biologi.ui.ac.id)

Depok, 7 Juni 2023

Nomor : 533/UN2.F3.11/PDP.02.00/2023  
Lampiran : 1 halaman (Daftar Referensi dan Catatan Identifikator)  
Perihal : Hasil identifikasi tumbuhan

Kepada  
Dita Aprilia Dewi  
Program Studi Farmasi  
Fakultas Ilmu-ilmu Kesehatan  
Universitas Esa Unggul  
Duri Kepa, Kebon Jeruk  
DKI Jakarta 11510

Dengan hormat,  
bersama ini kami sampaikan hasil identifikasi tumbuhan yang Saudara kirimkan ke Herbarium Depokensis (UIIDEP), Ruang Koleksi Biota Universitas Indonesia, pada tanggal 6 Juni 2023, adalah sebagai berikut dengan acuan yang tertera pada lampiran.

No.	Dugaan dan Kode Spesimen	Hasil Identifikasi	
		Spesies	Famili
1.	Daun Salam ( <i>Syzygium polyanthum</i> W.) famili Myrtaceae [JI23-P-072]	<i>Syzygium polyanthum</i> (Wight) Walp. *	Myrtaceae

\*lihat catatan identifikator

Departemen Biologi FMIPA UI dan Herbarium Depokensis (UIIDEP), Ruang Koleksi Biota Universitas Indonesia tidak bertanggung jawab terhadap tindakan penyalahgunaan hasil identifikasi. Demikian surat ini dibuat untuk dapat dipergunakan sebagaimana mestinya oleh pihak yang bersangkutan.



Lampiran 3 Ekstraksi

 <p>Proses pencucian daun salam</p>	 <p>Simplisia yang telah kering</p>
 <p>Serbuk simplisia</p>	 <p>Merasasi</p>
 <p>Proses penyaringan</p>	 <p>Rotary Evaporator</p>



#### Perhitungan Rendemen Simplisia

$$\begin{aligned}\% \text{ Rendemen simplisia} &= \frac{\text{berat akhir (g)}}{\text{berat awal (g)}} \times 100\% \\ &= \frac{1500 \text{ (g)}}{3000 \text{ (g)}} \times 100\% \\ &= 50\%\end{aligned}$$

#### Perhitungan rendemen Ekstrak

$$\begin{aligned}\% \text{ Rendemen ekstrak} &= \frac{\text{bobot ekstrak (g)}}{\text{bobot simplisia (g)}} \times 100\% \\ &= \frac{40 \text{ (g)}}{300 \text{ (g)}} \times 100\% \\ &= 13,3\%\end{aligned}$$

Lampiran 4 Skrining Fitokimia

	
Flavonoid (positif)	Saponin (Positif)
	
Alkaloid dragendroff (positif)	Tanin (positif)
	
Steroid (negatif)	Triterpenoid (negatif)



Alkaloid Wagner (Positif)

Lampiran 5 Alat dan Bahan

 A white digital analytical balance scale with a stainless steel weighing pan. The display screen shows "PIONEER" and various measurement units.	 A white and black pH meter probe with a digital display and a keypad. It is labeled "pH METER".
 A white digital viscometer with a large touchscreen display and a keypad, mounted on a black stand in a laboratory environment.	 The front panel of a white oven with a digital control panel featuring a small display and several buttons. It is labeled "ZXRD-B5".

	
HPMC	Propilenglikol
	
Metylparaben	Propylparaben

Lampiran 6 Sediaan Gel Ekstrak Etanol Daun Salam



Sediaan Gel Ekstrak Etanol Daun Salam

Lampiran 7 Evaluasi Sediaan Gel Ekstrak Etanol Daun Salam

 <p>Uji viskositas</p>	 <p>Uji pH</p>
 <p>Uji daya sebar</p>	 <p>Uji daya lekat</p>
 <p>Uji homogenitas</p>	 <p>Uji sineresis</p>

### Lampiran 8 Perhitungan Nilai IC<sub>50</sub> Asam Askorbat

Perhitungan nilai IC<sub>50</sub> Asam Askorbat

$$Y = ax + b$$

$$(y) = 50 \quad (a) = 9,6306x \quad (b) = -8,2101$$

$$IC_{50} = \frac{50-b}{a}$$

$$= 50 - (-8,2101) / 9,6306$$

$$= 6,04 \mu\text{g/mL}$$

### Lampiran 9 Perhitungan Nilai IC<sub>50</sub> Ekstrak Etanol Daun Salam

Perhitungan nilai IC<sub>50</sub> Ekstrak Etanol Daun Salam

$$Y = ax + b$$

$$(y) = 50 \quad (a) = 1,945x \quad (b) = + 27,159$$

$$IC_{50} = \frac{50-b}{a}$$

$$= 50 - 27,159 / 1,945$$

$$= 11,74 \mu\text{g/mL}$$

### Lampiran 10 Hasil Pengukuran Nilai % Inhibisi Basis Gel (F0)

Sampel	Konsentrasi μg/mL	Absorbansi Pengulangan			Rata- rata	Absorbansi sampel	% Inhibisi
		1	2	3			
Formula (0)	180	0.6417	0.6011	0.6221	0.6217	0.577	15.84
	200	0.6039	0.6119	0.6058	0.6073	0.563	17.95
	400	0.6157	0.6196	0.6147	0.6167	0.572	16.58
	600	0.6140	0.6184	0.6085	0.6137	0.569	17.01
	800	0.6168	0.634	0.6369	0.6292	0.585	14.74
	1000	0.6329	0.6901	0.6983	0.6738	0.629	8.25

	Absorbansi Pengulangan			Rata- rata
	1	2	3	
Etanol p.a	0.0433	0.045	0.0451	0.04447
DPPH 100 ppm	0.7369	0.7149	0.7393	0.73037 0.6859

Lampiran 11 Perhitungan Nilai IC<sub>50</sub> Gel Ekstrak Etanol Daun Salam (F1)

Perhitungan nilai IC<sub>50</sub> Ekstrak Etanol Daun Salam

$$Y = ax + b$$

$$(y) = 50 \quad (a) = 0,0636x \quad (b) = + 19,891$$

$$IC_{50} = \frac{50-b}{a}$$

$$= 50 - 19,891 / 0,0636$$

$$= 473,41 \mu\text{g/mL}$$

Lampiran 12 Perhitungan Nilai IC<sub>50</sub> Gel Ekstrak Etanol Daun Salam (F2)

Perhitungan nilai IC<sub>50</sub> Ekstrak Etanol Daun Salam

$$Y = ax + b$$

$$(y) = 50 \quad (a) = 0,0389x \quad (b) = + 36,329$$

$$IC_{50} = \frac{50-b}{a}$$

$$= 50 - 36,329 / 0,0389$$

$$= 351,43 \mu\text{g/mL}$$

Lampiran 13 Perhitungan Nilai IC<sub>50</sub> Gel Ekstrak Etanol Daun Salam (F3)

Perhitungan nilai IC<sub>50</sub> Gel Ekstrak Etanol Daun Salam

$$Y = ax + b$$

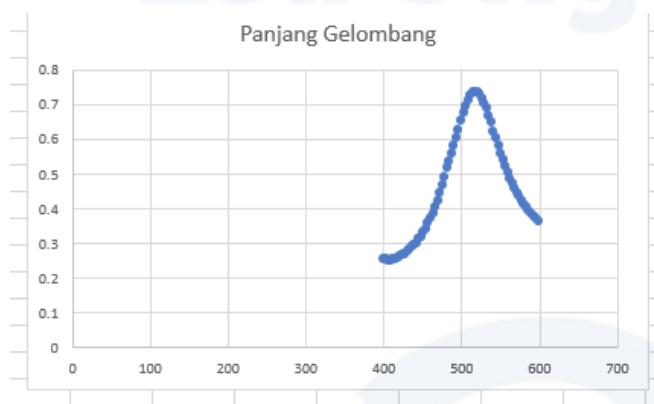
$$(y) = 50 \quad (a) = 0,0057x \quad (b) = + 35,218$$

$$IC_{50} = \frac{50-b}{a}$$

$$= 50 - 0,0557 / 35,218$$

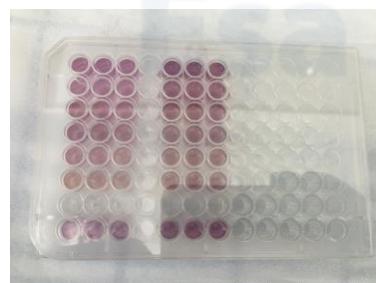
$$= 267,00 \mu\text{g/mL}$$

## Lampiran 14 Hasil Optimasi DPPH



<b>517</b>
<b>Absorbansi</b>
0.7369
0.7149
0.7393

Lampiran 15 Microplate reader 96-well



## Lampiran 16 COA Bahan

## Propilenglikol



## HASIL PEMERIKSAAN

Nama Bahan : Propylene Glycol  
 No Batch : J 0041/18 (C815HBK22T)  
 Ex : Dow Chemical Pacific, Singapore  
 E.D. : 11/2025  
 Grade : Farma

Jenis Pemeriksaan	Persyaratan USP NF 19	Hasil
Pemerian	Cairan kental jernih,tidak berwarna, tidak berbau, rasa agak manis, hygroskopik	Sesuai
Kelarutan	Dapat bercampur dgn air,dengan etanol dan dengan kloroform	Sesuai
Keasam-basaan	≤ 0,3 ml NaOH 0,1N	0,2 ml NaOH 0,1 N
Index Bias	1,431 - 1,433	1,433
Bobot per-ml	1,035 g - 1,037 g/ml	1,0364 g/ml
pH	±6,5	7.476

Kesimpulan : Memenuhi Syarat

Cikarang, 22 – 01 – 2022

Pemeriksa

Aptria Wariski  
Staff QC

Penanggung Jawab

Dra. Tri Hartati  
Apoteker

STRA : 19560421/STRA-ITB/1984/20192

HEAD OFFICE : Jl. Cideng Barat No. 78, Jakarta Pusat 10110, Tele: (021) 3822738 (hunting) Fax: (021) 3622734, E-mail : info@brataco.com  
 BRANCH OFFICE :  

- JAKARTA : Jl. Mangga Besar V No.5, Jakarta 11180 Telp: (021) 6209113 (hunting 3 lines) Fax: (021) 6202430
- BANDUNG : Jl. Boulevard Raya Blok TB2 No. 5, Jakarta 14240 Telp: (021) 49849980-94 Fax: (021) 4532615
- KELERENG NO. 6, BANDUNG TELP: (022) 6077150, 6080008 FAX: (022) 6031918
- YOGYAKARTA : Jl. Terusan Jakarta No. 77D, Bandung Telp: (022) 71012777, 7210000-309 Fax: (022) 7210310
- SEMARANG : Jl. Braga No. 10, Semarang Telp: (024) 4222222, 4222222-2222 Fax: (024) 4222222
- SURABAYA : Jl. Branggraha No. 45, Yogyakarta Telp: (0274) 6203000, 6210999 Fax: (0274) 642349
- MEDAN : Jl. Tidar No. 88, Surabaya Sel. (031) 5222987, 5220057 Fax: (031) 5310460
- JAKARTA MUDA no. 40 B, Medan Telp: (061) 4146272, 4523198 Fax: (061) 4525996

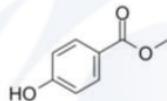
 SUB BRANCH OFFICE : TANGERANG, BOGOR, CIKARANG, CIREBON, TASIKMALAYA, SOLO, PURWOKERTO, TEGAL, MALANG, SIDOARJO, DENPASAR, PALEMBANG, MAKASSAR  
 The Nationwide Chemicals and Ingredients Distributor

**Metilparaben****Certificate of Analysis****Methyl Paraben**

Cat. No.: HY-N0349  
 CAS No.: 99-76-3  
 Batch No.: 33250  
 Chemical Name: Benzoic acid, 4-hydroxy-, methyl ester

**PHYSICAL AND CHEMICAL PROPERTIES**

Molecular Formula:	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>
Molecular Weight:	152.15
Storage:	Powder      -20°C      3 years 4°C      2 years In solvent      -80°C      6 months -20°C      1 month

**Chemical Structure:****ANALYTICAL DATA**

Appearance:	White to off-white (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Purity (HPLC):	99.71%
Conclusion:	The product has been tested and complies with the given specifications.

Inhibitors • Screening Libraries • Proteins

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898      Fax: 609-228-5909      E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)  
 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

**Propilparaben**

ALPHA CHEMIKA, 102, 1st Floor, B Wing, Savgan Heights, RTO Road, Four Bunglow, Andheri (W), Mumbai 400 053. Maharashtra (India)  
 Tel: +91 22 65218147 • +91 22 26317055 • +91 22 26330745 • TeleFax : 91-22-26317055 • Mobile : +91 9820 385757 • +91 9769 472001  
 Skype ID : tanmay1977 • Email: info@alphachemika.co.in / sales@alphachemika.co.in

**CERTIFICATE OF ANALYSIS**

Name Of Item : PROPYL-P-HYDROXY BENZOATE      Formula : C<sub>10</sub>H<sub>12</sub>O<sub>3</sub>  
 (Propyl Paraben)

M.W. : 180.21

Batch No. :

CAS NO. : 94-13-3

Cat. No. : AL3848 05000

Date Of Mfg. :

Date of Analysis :

Type Of Test	Standard	Observed
Description	White crystalline powder	White crystalline powder
Assay	99.5 - 100.5%	99.60%
Impurities reacting acid	Passes test	Passes test
Lead (Pb)	<0.001%	0.0008%
Copper (Cu)	<0.0025%	<0.0025%
Zinc (Zn)	<0.0025%	0.002%
Arsenic (As)	<0.0003%	0.0002%
Loss on drying at 60°C/2hrs	<0.5%	0.4%
Sulphated ash	<0.05%	0.048%

Results : The above product complies with LR grade

Registered Under Small Scale Industries Maharashtra (India)

HPMC

**Certificate of Analysis**

(Representative Sample Certificate)

**Product Name:** Hydroxypropyl Methylcellulose  
**INCI Name:** Hydroxypropyl methylcellulose  
**CAS Number:** 9004-65-3  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 36 months from production date

Analytical Tests	Specification	Analysis
Appearance	Off-white to yellowish powder	pass
Odor	Characteristic	pass
Viscosity, 2% in water at 20°C	60,000-90,000	83,921
Moisture as packaged	<7.0%	2.5
Sodium Chloride	<5.0%	0.4
Particle Size, thru 40 U.S. Std. Sieve	>99	100

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

---

MakingCosmetics.com Inc.  
 35318 SE Center Street, Snoqualmie, WA 98065  
 Phone 425-292-9502      Fax 425-292-9601      [www.makingcosmetics.com](http://www.makingcosmetics.com)

## Lampiran 17 Perhitungan

- Larutan Induk  

$$\frac{10 \text{ mg}}{10 \text{ ml}} = 1 \text{ mg/ml} = 1000 \mu\text{g/ml}$$
- Pengenceran larutan 100  $\mu\text{g/ml}$   

$$= C_1 \times V_1 = C_2 \times V_2$$

$$= 1000 \mu\text{g/ml} \times V_1$$

$$= 100 \mu\text{g/ml} \times 25 \text{ ml}$$

$$V_1 = \frac{100 \mu\text{g/ml} \times 25 \text{ ml}}{100 \mu\text{g/ml}}$$

$$V_1 = 2,5 \text{ ml}$$

### 1. Perhitungan Larutan Asam Askorbat

- Larutan Induk  

$$\frac{10 \text{ mg}}{10 \text{ ml}} = 1 \text{ mg/ml} = 1000 \mu\text{g/ml}$$
- Pengenceran Larutan 100  $\mu\text{g/ml}$   

$$= C_1 \times V_1 = C_2 \times V_2$$

$$= 1000 \mu\text{g/ml} \times V_1$$

$$= 100 \mu\text{g/ml} \times 25 \text{ ml}$$

$$V_1 = \frac{100 \mu\text{g/ml} \times 25 \text{ ml}}{100 \mu\text{g/ml}}$$

$$V_1 = 2,5 \text{ ml}$$
- Variasi konsentrasi
  - **1  $\mu\text{g/ml}$**   

$$= C_1 \times V_1 = C_2 \times V_2$$

$$= 1000 \mu\text{g/ml} \times V_1$$

$$= 1 \mu\text{g/ml} \times 10 \text{ ml}$$

$$V_1 = \frac{1 \mu\text{g/ml} \times 10 \text{ ml}}{1000 \mu\text{g/ml}}$$

$$V_1 = 0,01 \text{ ml} \sim 10 \mu\text{l}$$
  - **2  $\mu\text{g/ml}$**   

$$= C_1 \times V_1 = C_2 \times V_2$$

$$= 1000 \mu\text{g/ml} \times V_1$$

$$= 2 \mu\text{g/ml} \times 10 \text{ ml}$$

$$V_1 = \frac{2 \mu\text{g/ml} \times 10 \text{ ml}}{1000 \mu\text{g/ml}}$$

$$V_1 = 0,02 \text{ ml} \sim 20 \mu\text{l}$$
  - **3  $\mu\text{g/ml}$**   

$$= C_1 \times V_1 = C_2 \times V_2$$

$$= 1000 \mu\text{g/ml} \times V_1$$

$$= 3 \mu\text{g/ml} \times 10 \text{ ml}$$

$$\begin{aligned}
 V1 &= \frac{3 \mu\text{g/ml} \times 10\text{ml}}{1000 \mu\text{g/ml}} \\
 V1 &= 0,03 \text{ ml} \sim 30 \mu\text{l} \\
 \bullet \quad &\mathbf{4 \mu\text{g/ml}} \\
 &= C1 \times V1 = C2 \times V2 \\
 &= 1000 \mu\text{g/ml} \times V1 \\
 &= 4 \mu\text{g/ml} \times 10 \text{ ml} \\
 V1 &= \frac{4 \mu\text{g/ml} \times 10\text{ml}}{1000 \mu\text{g/ml}} \\
 V1 &= 0,04 \text{ ml} \sim 40 \mu\text{l} \\
 \bullet \quad &\mathbf{5 \mu\text{g/ml}} \\
 &= C1 \times V1 = C2 \times V2 \\
 &= 1000 \mu\text{g/ml} \times V1 \\
 &= 5 \mu\text{g/ml} \times 10 \text{ ml} \\
 V1 &= \frac{5 \mu\text{g/ml} \times 10\text{ml}}{1000 \mu\text{g/ml}} \\
 V1 &= 0,05 \text{ ml} \sim 50 \mu\text{l} \\
 \bullet \quad &\mathbf{6 \mu\text{g/ml}} \\
 &= C1 \times V1 = C2 \times V2 \\
 &= 1000 \mu\text{g/ml} \times V1 \\
 &= 6 \mu\text{g/ml} \times 10 \text{ ml} \\
 V1 &= \frac{6 \mu\text{g/ml} \times 10\text{ml}}{1000 \mu\text{g/ml}} \\
 V1 &= 0,06 \text{ ml} \sim 60 \mu\text{l}
 \end{aligned}$$

## 2. Pembuatan Larutan Ekstrak

- Larutan Induk Ekstrak  
 $\frac{10 \text{ mg}}{10 \text{ ml}} = 1 \text{ mg/ml} = 1000 \mu\text{g/ml}$
- Pengenceran Larutan 100  $\mu\text{g/ml}$   
 $= C1 \times V1 = C2 \times V2$   
 $= 1000 \mu\text{g/ml} \times V1$   
 $= 100 \mu\text{g/ml} \times 25 \text{ ml}$   
 $V1 = \frac{100 \mu\text{g/ml} \times 25\text{ml}}{100 \mu\text{g/ml}}$   
 $V1 = 2,5 \text{ ml}$
- Variasi konsentrasi
  - $1 \mu\text{g/ml}$   
 $= C1 \times V1 = C2 \times V2$   
 $= 100 \mu\text{g/ml} \times V1$   
 $= 1 \mu\text{g/ml} \times 25 \text{ ml}$   
 $V1 = \frac{1 \mu\text{g/ml} \times 25\text{ml}}{100 \mu\text{g/ml}}$   
 $V1 = 0,25 \text{ ml} \sim 250 \mu\text{l}$

- **6 µg/ml**  
 $= C_1 \times V_1 = C_2 \times V_2$   
 $= 100 \mu\text{g}/\text{ml} \times V_1$   
 $= 6 \mu\text{g}/\text{ml} \times 25 \text{ ml}$   
 $V_1 = \frac{6 \mu\text{g}/\text{ml} \times 25 \text{ ml}}{100 \mu\text{g}/\text{ml}}$   
 $V_1 = 1,5 \text{ ml} \sim 1500 \mu\text{l}$
- **11 µg/ml**  
 $= C_1 \times V_1 = C_2 \times V_2$   
 $= 100 \mu\text{g}/\text{ml} \times V_1$   
 $= 11 \mu\text{g}/\text{ml} \times 25 \text{ ml}$   
 $V_1 = \frac{11 \mu\text{g}/\text{ml} \times 25 \text{ ml}}{100 \mu\text{g}/\text{ml}}$   
 $V_1 = 2,75 \text{ ml} \sim 2750 \mu\text{l}$
- **16 µg/ml**  
 $= C_1 \times V_1 = C_2 \times V_2$   
 $= 100 \mu\text{g}/\text{ml} \times V_1$   
 $= 16 \mu\text{g}/\text{ml} \times 25 \text{ ml}$   
 $V_1 = \frac{16 \mu\text{g}/\text{ml} \times 25 \text{ ml}}{100 \mu\text{g}/\text{ml}}$   
 $V_1 = 4 \text{ ml} \sim 4000 \mu\text{l}$
- **21 µg/ml**  
 $= C_1 \times V_1 = C_2 \times V_2$   
 $= 100 \mu\text{g}/\text{ml} \times V_1$   
 $= 21 \mu\text{g}/\text{ml} \times 25 \text{ ml}$   
 $V_1 = \frac{21 \mu\text{g}/\text{ml} \times 25 \text{ ml}}{100 \mu\text{g}/\text{ml}}$   
 $V_1 = 5,25 \text{ ml} \sim 5250 \mu\text{l}$
- **26 µg/ml**  
 $= C_1 \times V_1 = C_2 \times V_2$   
 $= 100 \mu\text{g}/\text{ml} \times V_1$   
 $= 26 \mu\text{g}/\text{ml} \times 25 \text{ ml}$   
 $V_1 = \frac{26 \mu\text{g}/\text{ml} \times 25 \text{ ml}}{100 \mu\text{g}/\text{ml}}$   
 $V_1 = 6,5 \text{ ml} \sim 6500 \mu\text{l}$

### 3. Pembuatan Larutan Gel Ekstrak

- Larutan Induk Gel Ekstrak  
 $\frac{500 \text{ mg}}{25 \text{ ml}} = 20 \text{ mg/ml} = 20.000 \mu\text{g}/\text{ml}$
- Pengenceran Larutan  $10.000 \mu\text{g}/\text{ml}$   
 $= C_1 \times V_1 = C_2 \times V_2$   
 $= 20.000 \mu\text{g}/\text{ml} \times V_1$

$$= 10.000 \mu\text{g/ml} \times 25 \text{ ml}$$

$$V1 = \frac{10.000 \mu\text{g/ml} \times 25 \text{ ml}}{10.000 \mu\text{g/ml}}$$

$$V1 = 12,5 \text{ ml}$$

▪ Variasi konsentrasi

- **1000  $\mu\text{g/ml}$**

$$= C1 \times V1 = C2 \times V2$$

$$= 10.000 \mu\text{g/ml} \times V1$$

$$= 1000 \mu\text{g/ml} \times 5 \text{ ml}$$

$$V1 = \frac{1000 \mu\text{g/ml} \times 5 \text{ ml}}{10.000 \mu\text{g/ml}}$$

$$V1 = 0,5 \text{ ml} \sim 500 \mu\text{l}$$

- **800  $\mu\text{g/ml}$**

$$= C1 \times V1 = C2 \times V2$$

$$= 10.000 \mu\text{g/ml} \times V1$$

$$= 800 \mu\text{g/ml} \times 5 \text{ ml}$$

$$V1 = \frac{800 \mu\text{g/ml} \times 5 \text{ ml}}{10.000 \mu\text{g/ml}}$$

$$V1 = 0,4 \text{ ml} \sim 400 \mu\text{l}$$

- **600  $\mu\text{g/ml}$**

$$= C1 \times V1 = C2 \times V2$$

$$= 10.000 \mu\text{g/ml} \times V1$$

$$= 600 \mu\text{g/ml} \times 5 \text{ ml}$$

$$V1 = \frac{600 \mu\text{g/ml} \times 5 \text{ ml}}{10.000 \mu\text{g/ml}}$$

$$V1 = 0,3 \text{ ml} \sim 300 \mu\text{l}$$

- **400  $\mu\text{g/ml}$**

$$= C1 \times V1 = C2 \times V2$$

$$= 10.000 \mu\text{g/ml} \times V1$$

$$= 400 \mu\text{g/ml} \times 5 \text{ ml}$$

$$V1 = \frac{400 \mu\text{g/ml} \times 5 \text{ ml}}{10.000 \mu\text{g/ml}}$$

$$V1 = 0,2 \text{ ml} \sim 200 \mu\text{l}$$

- **200  $\mu\text{g/ml}$**

$$= C1 \times V1 = C2 \times V2$$

$$= 10.000 \mu\text{g/ml} \times V1$$

$$= 200 \mu\text{g/ml} \times 5 \text{ ml}$$

$$V1 = \frac{200 \mu\text{g/ml} \times 5 \text{ ml}}{10.000 \mu\text{g/ml}}$$

$$V1 = 0,1 \text{ ml} \sim 100 \mu\text{l}$$

- **180  $\mu\text{g/ml}$**

$$= C1 \times V1 = C2 \times V2$$

$$= 10.000 \mu\text{g/ml} \times V1$$

$$= 180 \mu\text{g/ml} \times 5 \text{ ml}$$

$$V1 = \frac{180 \text{ } \mu\text{g/ml} \times 5\text{ml}}{10.000 \text{ } \mu\text{g/ml}}$$
$$V1 = 0,09 \text{ ml} \sim 90 \text{ } \mu\text{l}$$