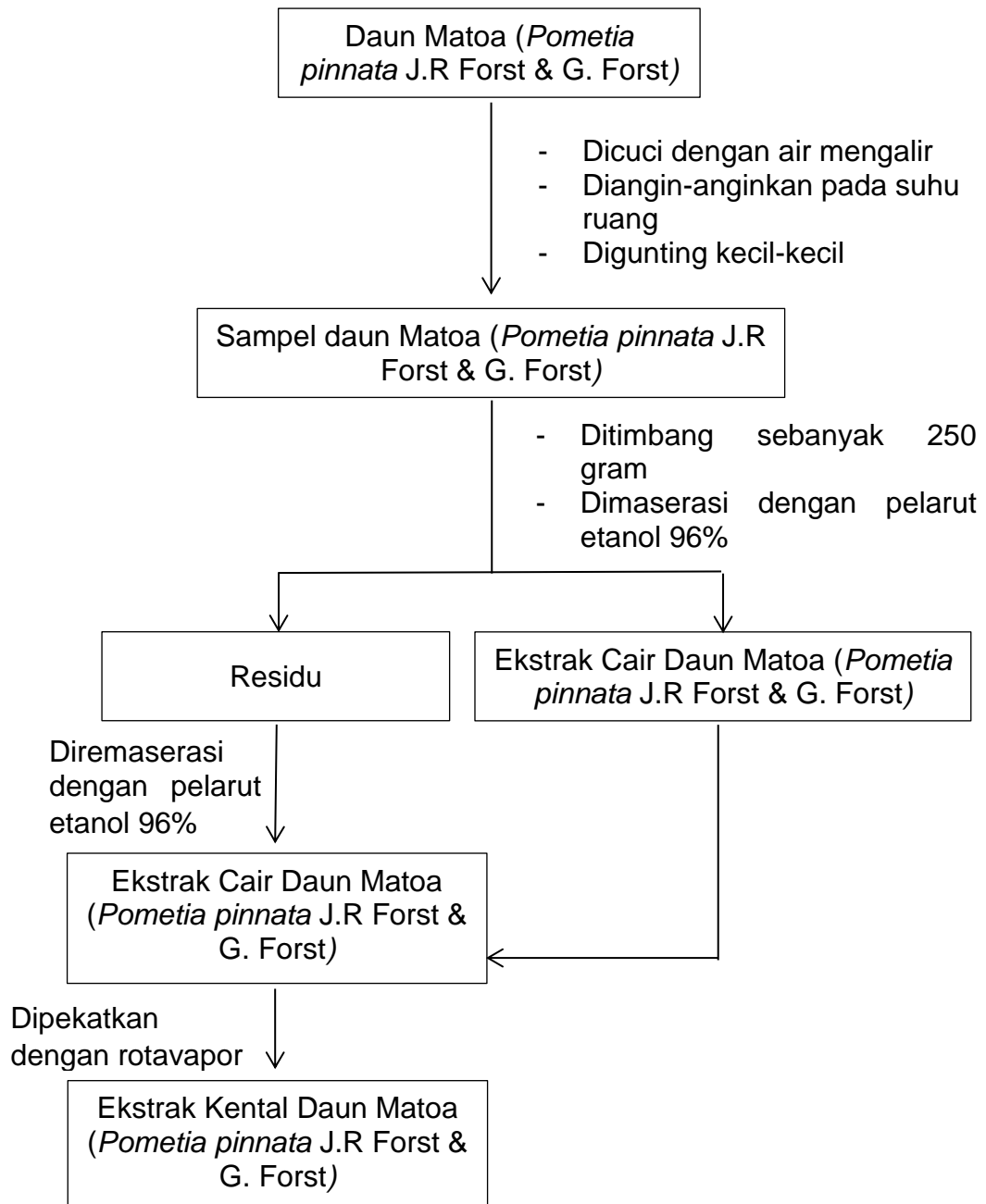


## LAMPIRAN

### Lampiran 1. Skema Keja Pembuatan Ekstrak Etanol Daun Matoa

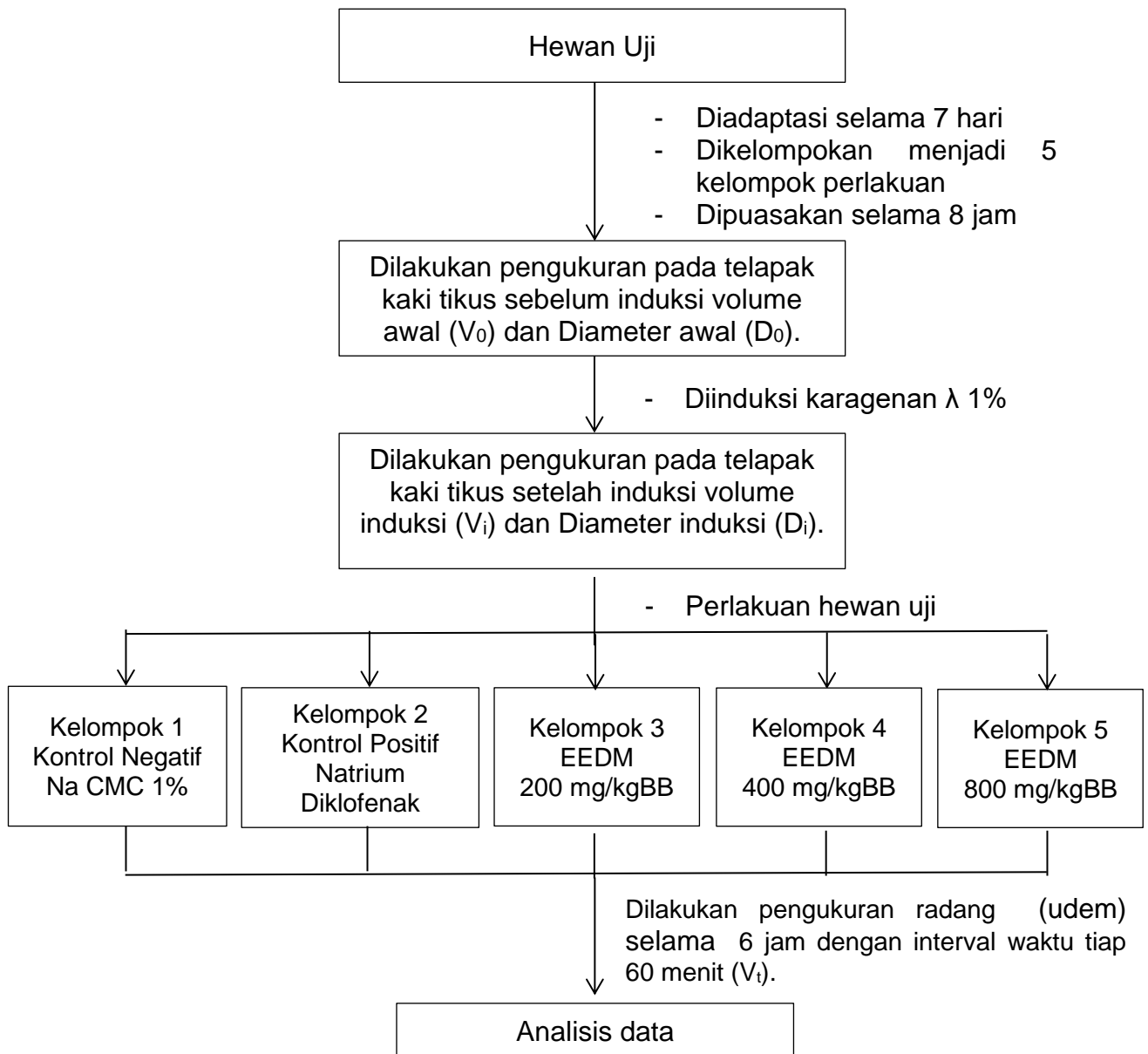
(*Pometia pinnata* J.R Forst & G. Forst)



**Gambar 6.** Skema Keja Pembuatan Ekstrak Etanol Daun Matoa (*Pometia pinnata* J.R Forst & G. Forst)

## Lampiran 2. Skema Keja Pengujian Efektivitas Antiinflamasi Terhadap

Hewan Uji



**Gambar 7.** Skema Keja Pengujian Efektivitas Antiinflamasi Terhadap

Hewan Uji

Ket : EEDM = Ekstrak Etanol Daun Matoa

### Lampiran 3. Perhitungan Dosis

#### a. Na CMC

$$\text{Na CMC 1\%} = \frac{1 \text{ g}}{100 \text{ mL}}$$

$$\begin{aligned} \text{Volume pemberian} &= 10 \text{ mL/KgBB} \\ &= 10 \text{ mL/ 1000 g} \\ &= 2 \text{ mL/200 g} \end{aligned}$$

#### b. Natrium Diklofenak

##### Dosis obat 50 mg

$$\begin{aligned} \text{Dosis tikus 200 g} &= 50 \text{ mg} \times 0,018 \\ &= 0,9 \text{ mg} \end{aligned}$$

$$\text{Volume pemberian} = 2 \text{ mL/200 g}$$

$$\begin{aligned} \text{Larutan Stok 25 mL} &= \frac{25 \text{ mL}}{2 \text{ mL}} \times 0,9 \text{ mg} \\ &= 11,25 \text{ mg/25 mL} \end{aligned}$$

$$\text{Berat rata-rata 10 tab} = 2.330,8 \text{ mg}$$

$$\begin{aligned} \text{BYD} &= \frac{11,25 \text{ mg}}{50 \text{ mg}} \times 2.330,8 \text{ mg} \\ &= 524,43 \text{ mg} \end{aligned}$$

##### Ekstrak Etanol Daun Matoa (EEDM)

##### EEDM 200 mg/kgBB

$$\begin{aligned} \text{Dosis tikus 200 g} &= \frac{200 \text{ mg}}{1000 \text{ g}} \times 200 \text{ g} \\ &= 40 \text{ mg} \end{aligned}$$

$$\text{Larutan Stok 25 mL} = \frac{25 \text{ mL}}{2 \text{ mL}} \times 40 \text{ mg}$$

$$= 500 \text{ mg}/25 \text{ mL}$$

**EEDM 400 mg/kgBB**

$$\text{Dosis tikus } 200 \text{ g} = \frac{400 \text{ mg}}{1000 \text{ g}} \times 200 \text{ g}$$

$$= 80 \text{ mg}$$

$$\text{Larutan Stok } 25 \text{ mL} = \frac{25 \text{ mL}}{2 \text{ mL}} \times 80 \text{ mg}$$

$$= 1000 \text{ mg}/25 \text{ mL}$$

**EEDM 800 mg/kgBB**

$$\text{Dosis tikus } 200 \text{ g} = \frac{800 \text{ mg}}{1000 \text{ g}} \times 200 \text{ g}$$

$$= 160 \text{ mg}$$

$$\text{Larutan Stok } 25 \text{ mL} = \frac{25 \text{ mL}}{2 \text{ mL}} \times 160 \text{ mg}$$

$$= 2000 \text{ mg}/25 \text{ mL}$$

#### Lampiran 4. Daftar Tabel

**Tabel 7.** Data hasil pengukuran volume udem ( $\text{mm}^3$ ) menggunakan pletismometer

Perlakuan	Replikasi	V0	Vi	Volume udem ( $\text{mm}^3$ ) setelah perlakuan pada jam					
				1	2	3	4	5	6
Kelompok I Na CMC 1%	I	0.7	1.63	1.84	1.88	1.88	1.85	1.82	1.79
	II	0.83	1.64	1.78	1.81	1.8	1.79	1.78	1.77
	III	0.87	1.65	1.85	1.87	1.87	1.86	1.85	1.84
	IV	0.85	1.67	1.8	1.83	1.83	1.82	1.82	1.82
	V	0.89	1.69	1.83	1.87	1.86	1.84	1.84	1.83
Kelompok II Natrium Diklofenak	I	0.67	1.49	1.72	1.81	1.71	1.59	1.41	1.18
	II	0.79	1.65	1.82	1.9	1.82	1.7	1.52	1.33
	III	0.72	1.57	1.75	1.86	1.76	1.62	1.43	1.25
	IV	0.49	1.23	1.47	1.61	1.52	1.39	1.28	1.09
	V	0.98	1.64	1.83	1.88	1.78	1.65	1.49	1.3
Kelompok III EEDM 200mg/KgBB	I	0.56	1.53	1.69	1.75	1.69	1.61	1.56	1.52
	II	0.61	1.52	1.73	1.77	1.69	1.58	1.52	1.45
	III	0.67	1.58	1.89	1.94	1.88	1.74	1.63	1.52
	IV	0.67	1.62	1.81	1.87	1.8	1.71	1.57	1.47
	V	0.7	1.77	1.97	2.02	1.97	1.87	1.79	1.69
Kelompok IV EEDM 400mg/KgBB	I	0.87	1.63	1.82	1.9	1.78	1.63	1.38	1.17
	II	0.78	1.65	1.75	1.82	1.72	1.6	1.47	1.36
	III	0.8	1.7	1.82	1.88	1.73	1.57	1.37	1.22
	IV	0.85	1.74	1.82	1.88	1.76	1.57	1.43	1.3
	V	0.83	1.7	1.8	1.86	1.74	1.55	1.4	1.27
Kelompok V EEDM 800mg/KgBB	I	0.76	1.63	1.88	1.92	1.86	1.74	1.6	1.43
	II	0.75	1.61	1.82	1.83	1.78	1.71	1.59	1.51
	III	0.7	1.77	1.93	1.99	1.93	1.87	1.72	1.55
	IV	0.55	1.42	1.55	1.56	1.46	1.34	1.22	1.16
	V	0.6	1.68	1.88	1.9	1.84	1.72	1.59	1.39

Ket. EEDM (ekstrak etanol daun matoa)

**Tabel 8.** Data hasil pengukuran diameter udem (mm) menggunakan jangka sorong

Perlakuan	Replikasi	D0	Di	Diameter udem (mm) setelah perlakuan pada jam					
				1	2	3	4	5	6
Kelompok I Na CMC 1%	I	5.20	6.29	7.05	7.25	7.23	7.20	7.18	7.13
	II	5.98	6.97	7.20	7.45	7.46	7.44	7.44	7.42
	III	5.21	6.10	6.66	7.09	7.10	7.09	7.07	7.03
	IV	5.60	6.38	6.87	7.23	7.25	7.21	7.20	7.17
	V	5.69	6.74	7.22	7.64	7.64	7.65	7.63	7.62
Kelompok II Natrium Diklofenak	I	5.42	5.63	6.36	6.90	6.56	6.34	6.03	5.89
	II	5.99	6.04	6.75	7.03	6.78	6.32	5.93	5.68
	III	5.65	5.97	6.25	6.77	6.30	6.11	6.02	5.87
	IV	5.37	6.37	7.26	7.91	7.21	6.99	6.78	6.26
	V	5.42	6.05	6.48	6.72	6.51	6.28	5.95	5.35
Kelompok III EEDM 200mg/KgBB	I	5.23	6.83	7.26	8.02	7.52	7.04	6.35	5.22
	II	5.59	6.73	7.93	8.35	7.83	7.14	6.33	5.53
	III	5.27	6.44	7.24	8.39	7.96	7.25	6.53	5.83
	IV	5.33	6.31	7.42	8.57	7.77	6.99	6.24	5.34
	V	6.07	6.90	7.38	8.00	7.26	6.59	5.98	5.00
Kelompok IV EEDM 400mg/KgBB	I	5.23	6.49	7.23	7.63	6.32	5.80	5.18	4.82
	II	5.40	6.99	7.79	8.13	7.49	6.93	6.22	5.49
	III	5.80	6.84	7.28	7.59	7.29	6.64	6.14	5.79
	IV	5.44	6.71	7.15	7.36	6.77	6.08	5.72	5.09
	V	6.22	6.97	7.26	7.52	7.02	6.59	6.11	5.72
Kelompok V EEDM 800mg/KgBB	I	5.40	6.70	7.23	7.84	7.59	7.22	6.50	6.08
	II	5.48	6.93	7.83	8.25	8.16	7.98	7.56	7.12
	III	5.47	6.19	7.13	7.54	7.27	7.03	6.90	6.43
	IV	5.31	7.69	8.04	8.25	8.13	7.89	7.56	7.20
	V	5.11	5.39	5.74	6.08	5.73	5.46	5.26	5.18

Ket. EEDM (ekstrak etanol daun mataoa)

**Tabel 9.** Hasil pengukuran AUC terhadap volume udem ( $\text{mm}^3$ ) menggunakan pletismometer

Perlakuan	Replikasi	Vu	Volume udem ( $\text{mm}^3$ ) setelah perlakuan pada jam					
			1	2	3	4	5	6
Kelompok I Na CMC 1%	I	0.93	1.74	1.86	1.88	1.87	1.84	1.81
	II	0.81	1.71	1.80	1.81	1.80	1.79	1.78
	III	0.78	1.75	1.86	1.87	1.87	1.86	1.85
	IV	0.82	1.74	1.82	1.83	1.83	1.82	1.82
	V	0.8	1.76	1.85	1.87	1.85	1.84	1.84
Rata -rata		0.83	1.74	1.84	1.85	1.84	1.83	1.82
SD		0	0.03	0.03	0.03	0.03	0.03	0.03
Kelompok II Natrium Diklofenak	I	0.82	1.61	1.77	1.76	1.65	1.50	1.30
	II	0.86	1.74	1.86	1.86	1.76	1.61	1.43
	III	0.85	1.66	1.81	1.81	1.69	1.53	1.34
	IV	0.74	1.35	1.54	1.57	1.46	1.34	1.19
	V	0.66	1.74	1.86	1.83	1.72	1.57	1.40
Rata -rata		0.79	1.62	1.77	1.77	1.66	1.51	1.33
SD		-0.01	0.16	0.14	0.12	0.12	0.11	0.09
Kelompok III EEDM 200mg/KgBB	I	0.97	1.61	1.72	1.72	1.65	1.59	1.54
	II	0.91	1.63	1.75	1.73	1.64	1.55	1.49
	III	0.91	1.74	1.92	1.91	1.81	1.69	1.58
	IV	0.95	1.72	1.84	1.84	1.76	1.64	1.52
	V	1.07	1.87	2.00	2.00	1.92	1.83	1.74
Rata -rata		0.96	1.71	1.85	1.84	1.76	1.66	1.58
SD		0.04	0.11	0.12	0.12	0.12	0.12	0.10
Kelompok IV EEDM 400mg/KgBB	I	0.76	1.73	1.86	1.84	1.71	1.51	1.28
	II	0.87	1.70	1.79	1.77	1.66	1.54	1.42
	III	0.9	1.76	1.85	1.81	1.65	1.47	1.30
	IV	0.89	1.78	1.85	1.82	1.67	1.50	1.37
	V	0.87	1.75	1.83	1.80	1.65	1.48	1.34
Rata -rata		0.85	1.74	1.84	1.81	1.67	1.50	1.34
SD		0	0.04	0.03	0.03	0.03	0.04	0.06
Kelompok V EEDM 800mg/KgBB	I	0.87	1.76	1.90	1.89	1.80	1.67	1.52
	II	0.86	1.72	1.83	1.81	1.75	1.65	1.55
	III	1.07	1.85	1.96	1.96	1.90	1.80	1.64
	IV	0.87	1.49	1.56	1.51	1.40	1.28	1.19
	V	1.08	1.78	1.89	1.87	1.78	1.66	1.49
Rata -rata		0.95	1.72	1.83	1.81	1.72	1.61	1.48
SD		0.03	0.13	0.15	0.16	0.18	0.18	0.16

**Tabel 10.** Hasil pengukuran AUC terhadap diameter udem (mm) menggunakan jangka sorong

Perlakuan	Replikasi	Du	Diameter udem (mm) setelah perlakuan pada jam					
			1	2	3	4	5	6
Kelompok I Na CMC 1%	I	1.09	6.67	7.15	7.24	7.22	7.19	7.16
	II	0.99	7.09	7.33	7.46	7.45	7.44	7.43
	III	0.89	6.38	6.88	7.10	7.10	7.08	7.05
	IV	0.78	6.63	7.05	7.24	7.23	7.21	7.19
	V	1.05	6.98	7.43	7.64	7.65	7.64	7.63
Rata -rata		0.96	6.75	7.17	7.33	7.33	7.31	7.29
SD		0.06	0.28	0.22	0.21	0.21	0.22	0.22
Kelompok II Natrium Diklofenak	I	0.21	6.00	6.63	6.73	6.45	6.19	5.96
	II	0.05	6.40	6.89	6.91	6.55	6.13	5.81
	III	0.32	6.11	6.51	6.54	6.21	6.07	5.95
	IV	1.00	6.82	7.59	7.56	7.10	6.89	6.52
	V	0.63	6.27	6.60	6.62	6.40	6.12	5.65
Rata -rata		0.44	6.32	6.84	6.87	6.54	6.28	5.98
SD		0.00	0.33	0.45	0.42	0.34	0.35	0.35
Kelompok III EEDM 200mg/KgBB	I	1.60	7.05	7.64	7.77	7.28	6.70	5.79
	II	1.14	7.33	8.14	8.09	7.49	6.74	5.93
	III	1.17	6.84	7.82	8.18	7.61	6.89	6.18
	IV	0.98	6.87	8.00	8.17	7.38	6.62	5.79
	V	0.83	7.14	7.69	7.63	6.93	6.29	5.49
Rata -rata		1.14	7.04	7.86	7.97	7.34	6.64	5.84
SD		-0.09	0.27	0.26	0.26	0.26	0.23	0.26
Kelompok IV EEDM 400mg/KgBB	I	1.26	6.86	7.43	6.98	6.06	5.49	5.00
	II	1.59	7.39	7.96	7.81	7.21	6.58	5.86
	III	1.04	7.06	7.44	7.44	6.97	6.39	5.97
	IV	1.27	6.93	7.26	7.07	6.43	5.90	5.41
	V	0.75	7.12	7.39	7.27	6.81	6.35	5.92
Rata -rata		1.18	7.07	7.49	7.31	6.69	6.14	5.63
SD		-0.19	0.23	0.27	0.37	0.46	0.45	0.42
Kelompok V EEDM 800mg/KgBB	I	1.30	6.97	7.54	7.72	7.41	6.86	6.29
	II	1.45	7.38	8.04	8.21	8.07	7.77	7.34
	III	0.72	6.66	7.34	7.41	7.15	6.97	6.67
	IV	2.38	7.87	8.15	8.19	8.01	7.73	7.38
	V	0.28	5.57	5.91	5.91	5.60	5.36	5.22
Rata -rata		1.23	6.89	7.39	7.48	7.25	6.94	6.58
SD		0.63	0.79	0.80	0.85	0.90	0.88	0.80



## Lampiran 5. Analisis Statistik

Tabel 11. Descriptives

		Statistic	Std. Error	
Volume	Mean	11.0840	.15388	
	95% Confidence Interval for Mean	Lower Bound	10.7664	
		Upper Bound	11.4016	
	5% Trimmed Mean	11.1160		
	Median	11.1200		
	Variance	.592		
	Std. Deviation	.76942		
	Minimum	9.19		
	Maximum	12.43		
	Range	3.24		
	Interquartile Range	.91		
	Skewness	-.739	.464	
	Kurtosis	1.082	.902	
Diameter	Mean	47.0372	.63305	
	95% Confidence Interval for Mean	Lower Bound	45.7307	
		Upper Bound	48.3437	
	5% Trimmed Mean	47.1457		
	Median	47.6700		
	Variance	10.019		
	Std. Deviation	3.16524		
	Minimum	38.68		
	Maximum	52.64		
	Range	13.96		
	Interquartile Range	3.94		
	Skewness	-.612	.464	
	Kurtosis	.823	.902	

**Tabel 12.** Uji Normalitas

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Volume	.184	25	.028	.930	25	.085
Diameter	.190	25	.020	.942	25	.161

Ket. EEDM (ekstrak etanol daun matoa)

$p > 0,05$ : Tidak berbeda nyata secara signifikan (terdistribusi normal)

$p < 0,05$ : berbeda nyata secara signifikan (tidak terdistribusi normal)

**Tabel 13.** Uji Homogenitas

		Levene Statistic	df1	df2	Sig.
Volume	Based on Mean	2.275	4	20	.097
	Based on Median	1.294	4	20	.306
	Based on Median and with adjusted df	1.294	4	9.512	.339
	Based on trimmed mean	2.007	4	20	.132
Diameter	Based on Mean	2.063	4	20	.124
	Based on Median	1.538	4	20	.229
	Based on Median and with adjusted df	1.538	4	8.539	.275
	Based on trimmed mean	1.918	4	20	.147

Ket. EEDM (ekstrak etanol daun matoa)

$p > 0,05$ : Tidak berbeda nyata secara signifikan (homogen)

$p < 0,05$ : berbeda nyata secara signifikan (tidak homogen)

**Tabel 14.** Uji *One Way Anova*

		Sum of Squares	df	Mean Square	F	Sig.
Volume	Between Groups	5.222	4	1.305	2.906	.048
	Within Groups	8.986	20	.449		
	Total	14.208	24			
Diameter	Between Groups	64.875	4	16.219	1.848	.159
	Within Groups	175.574	20	8.779		
	Total	240.450	24			

Ket. EEDM (ekstrak etanol daun matoa)

$p < 0,05$  : Berbeda nyata secara signifikan.

$p > 0,05$  : Tidak berbeda nyata secara signifikan.

Tabel 15. Uji LSD (Post Hoc)

Dependent Variable	(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Volume	Na CMC 1%	NaDik	1.31400*	.42393	.006	.4297	2.1983
		EEDM 200mg/KgBB	.40000	.42393	.357	-.4843	1.2843
		EEDM 400mg/KgBB	.99600*	.42393	.029	.1117	1.8803
		EEDM 800mg/ KgBB	.63000	.42393	.153	-.2543	1.5143
	NaDik	Na CMC 1%	-1.31400*	.42393	.006	-2.1983	-.4297
		EEDM 200mg/KgBB	-.91400*	.42393	.043	-1.7983	-.0297
		EEDM 400mg/KgBB	-.31800	.42393	.462	-1.2023	.5663
		EEDM 800mg/ KgBB	-.68400	.42393	.122	-1.5683	.2003
	EEDM 200mg/KgBB	Na CMC 1%	-.40000	.42393	.357	-1.2843	.4843
		NaDik	.91400*	.42393	.043	.0297	1.7983
		EEDM 400mg/KgBB	.59600	.42393	.175	-.2883	1.4803
		EEDM 800mg/ KgBB	.23000	.42393	.593	-.6543	1.1143
	EEDM 400mg/KgBB	Na CMC 1%	-.99600*	.42393	.029	-1.8803	-.1117
		NaDik	.31800	.42393	.462	-.5663	1.2023
		EEDM 200mg/KgBB	-.59600	.42393	.175	-1.4803	.2883
		EEDM 800mg/ KgBB	-.36600	.42393	.398	-1.2503	.5183
	EEDM 800mg/ KgBB	Na CMC 1%	-.63000	.42393	.153	-1.5143	.2543
		NaDik	.68400	.42393	.122	-.2003	1.5683
		EEDM 200mg/KgBB	-.23000	.42393	.593	-1.1143	.6543
		EEDM 400mg/KgBB	.36600	.42393	.398	-.5183	1.2503

Ket. EEDM (ekstrak etanol daun matoa)  
 p<0,05 = Berbeda nyata secara signifikan  
 p>0,05 = Tidak berbeda nyata secara signifikan

**Lampiran 6. Gambar**

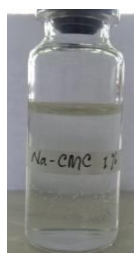
**Gambar 8.** Tanaman Matoa (*Pometia pinnata* J.R Forst & G. Forst)  
(Sumber : Dokumentasi pribadi)



**Gambar 9.** Daun Matoa (*Pometia pinnata* J.R Forst & G. Forst)  
(Sumber : Dokumentasi pribadi)



**Gambar 10.** Tikus putih jantan (*Rattus norvegicus*)  
(Dokumentasi pribadi).



**Gambar 11.** Kontrol Negatif (Suspensi Na CMC 1%)  
(Dokumentasi pribadi).



**Gambar 12.** Kontrol Positif (Suspensi Natrium Diklofenak)  
(Dokumentasi pribadi).



**Gambar 13.** Suspensi EEDM (Ekstrak Etanol Daun Matoa)  
(Dokumentasi pribadi).



**Gambar 14.** Ekstrak kental EEDM (Ekstrak Etanol Daun Matoa)  
(Dokumentasi pribadi).



**Gambar 15.** Udem pada kaki tikus  
(Dokumentasi pribadi).



(a)



(b)

**Gambar 16.** Hasil pengukuran (a) Pengukuran volume udem kaki tikus menggunakan plethismometer, (b) Pengukuran diameter udem kaki tikus menggunakan jangka sorong  
(Dokumentasi pribadi).