

## LAMPIRAN 1

### Perhitungan Dosis

#### 1. Perhitungan Dosis Fraksi n-heksan Pala

Prosedur pembuatan ekstrak pala :

1. Biji pala dipecahkan kulitnya dan daging bijinya diblender menjadi serbuk
2. Diekstraksi dengan pelarut etanol dengan metode maserasi
3. Diuapkan pelarut etanolnya dengan penguap vakum
4. Diperoleh ekstrak pekat pala sejumlah 50 g (Ekstrak Etanol)
5. Sejumlah 30 gram ekstrak pekat tsb ditambahkan pelarut metanol dan air
6. Diekstraksi dengan pelarut n-heksan dan diuapkan pelarut n-heksan (Fraksi n-heksan)
7. Diekstraksi dengan pelarut etil asetat dan diuapkan pelarut etil asetat (Fraksi etil asetat)
8. Sisanya diuapkan pelarutnya (Fraksi sisa)

Hasil yang diperoleh = Fraksi n-heksan – 39%  
Fraksi etil asetat – 40%  
Fraksi sisa – 21%

Dosis efektif Pala untuk tikus = 500 mg/kgBB dalam bentuk ekstrak etanol 50 % (Tajuddin, 2003)

Berat badan tikus yang digunakan = ± 325 gram  
Volume lambung tikus = ± 2 ml

Perhitungan dosis yang digunakan :

Fraksi n-heksan Pala dosis 1 (KP-1) =  $0,39 \times 500$  mg/kgBB  
= 195 mg/kgBB tikus

Fraksi n-heksan Pala dosis 2 (KP-2) =  $0,39 \times 2 \times 500$  mg/kgBB  
= 390 mg/kgBB tikus

Fraksi Sisa Pala (KP-3) =  $0,21 \times 500$  mg/kgBB  
= 105 mg/kgBB tikus

1% Na-CMC = 2 gram Na-CMC/200 ml aquadest  
= 0.2 gram/ 20 ml  
= 200 mg/ 20 ml

**KP-1**

Dosis = 195 mg/kgBB tikus

Dosis untuk tikus 325 g =  $0,325 \times 195$  mg  
= 63,375 mg

KP-1 = 63,375 mg/ 2 ml (1 kali sonde)

Larutan untuk 20 cc = 633,75 mg/20 ml Na-CMC 1%

633,75 mg KP-1 + 200 mg serbuk Na-CMC → digerus + aquadest  
20 ml → KP-1

**KP-2**

Dosis = 390 mg/kgBB tikus

Dosis untuk tikus 325 g =  $0,325 \times 390$  mg  
= 126,75 mg

KP-1 = 126,75 mg/ 2 ml (1 kali sonde)

Larutan untuk 20 cc = 1267,5 mg/20 ml Na-CMC 1%

1267,5 mg KP-2 + 200 mg serbuk Na-CMC → digerus + aquadest  
20 ml → KP-2

**KP-3**

Dosis = 105 mg/kgBB tikus

Dosis untuk tikus 325 g =  $0,325 \times 105$  mg  
= 34,125 mg

KP-1 = 34,125 mg/ 2 ml (1 kali sonde)

Larutan untuk 20 cc = 341,25 mg/20 ml Na-CMC 1%

341,25 mg KP-3 + 200 mg serbuk Na-CMC → digerus + aquadest  
20 ml → KP-3

## LAMPIRAN 2

### 2. Perhitungan Dosis Eugenol (Pembanding)

Dosis ekstrak etanol = 500 mg/kgBB tikus (Tajuddin, 2003)  
 Sediaan eugenol 10 cc 93% = 9,3 g/10cc = 930 mg/cc  
 Kadar eugenol dan isoeugenol dalam minyak atsiri = ± 4% (FAO Corporate Document Repository, 1994)

Dosis = 0,04 x 500 mg/kgBB = 20 mg/kgBB  
 Dosis untuk tikus 325 g = 0,325 x 20 mg  
 = 6,5 mg ≈ 7 mg

Dosis yang digunakan antara 7-10 mg → diambil 8,5 mg untuk tikus 325 g  
 Dosis untuk sekali sonde = 8,5 mg/2cc  
 Larutan untuk 20 cc = 85 mg/20 ml Na-CMC 1%  
 Larutan eugenol 85 mg/ 20cc = 425 mg/ 100 cc = 0,425%

Diambil eugenol 93% sebanyak =  $85/930 \times 1 \text{ cc}$   
 = 0,09 cc eugenol 93%

Untuk larutan 20 cc =  
 0,09 cc eugenol 93% + 200 mg Na-CMC serbuk → digerus +  
 aquadest sampai 20 cc → pembanding

Dosis untuk 1 kgBB tikus =  $1000/325 \times 8,5 \text{ mg/kgBB}$   
 = 26,15 mg/kgBB  
 ≈ 26 mg/kgBB

### LAMPIRAN 3

#### Data Kasar Penelitian

- Hari kelima

Hari ke-5

KP1	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	2	0	0	0	1	0
2	18	2	0	0	9	1
3	1	0	1	0	1	0
4	5	0	0	0	2.5	0
5	15	0	2	0	8.5	0

Hari ke-5

KP2	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	5	0	5	0	5	0
2	1	0	9	0	5	0
3	8	1	2	0	5	0.5
4	6	0	3	0	4.5	0
5	4	0	1	0	2.5	0

Hari ke-5

KP3	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	8	0	0	0	4	0
2	3	0	0	0	1.5	0
3	10	0	5	0	7.5	0
4	4	0	1	0	2.5	0
5	6	1	2	0	4	0.5

Hari ke-5

Kontrol	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	0	0	0	0	0	0
2	2	0	3	0	2.5	0
3	0	0	0	0	0	0
4	0	0	1	0	0.5	0
5	0	0	0	0	0	0

Hari ke-5

Pemanding	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	21	0	1	0	11	0
2	2	1	4	0	3	0.5
3	20	0	4	0	12	0
4	44	0	21	0	32.5	0
5	36	4	30	1	33	2.5

- **Hari ketujuh**

Hari ke-7

KP1	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	13	1	19	3	16	2
2	17	6	18	0	17.5	3
3	4	0	2	0	3	0
4	10	1	7	0	8.5	0.5
5	10	2	10	0	10	1

Hari ke-7

KP2	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	12	0	0	0	6	0
2	8	0	0	2	4	1
3	10	0	5	0	7.5	0
4	9	0	5	0	7	0
5	6	0	4	0	5	0

Hari ke-7

KP3	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	16	0	5	0	10.5	0
2	9	0	9	0	9	0
3	4	2	1	0	2.5	1
4	0	0	0	0	0	0
5	14	0	6	0	10	0

Hari ke-7

Kontrol	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	6	0	3	0
4	0	0	1	0	0.5	0
5	0	0	0	0	0	0

Hari ke-7

Pemanding	15 menit pertama		15 menit kedua		Rerata	
	Intro	Mount	Intro	Mount	$\Sigma$ Intro	$\Sigma$ Mount
1	11	0	6	2	8.5	1
2	25	0	1	0	13	0
3	11	3	18	1	14.5	2
4	69	0	51	8	60	4
5	44	0	25	0	34.5	0

## LAMPIRAN 4

### Analisis Data

#### 1. Pengenalan (*Introducing*)

##### Descriptive Statistics

ln									
		N	Mean	St. Dev	St. Error	95% Conf Intrv for Mean		Min	Max
						Lower Bound	Upper Bound		
IntH5	KP-1	5	1.9648	.91472	.40908	.8290	3.1005	1.10	2.94
	KP-2	5	2.2576	.26367	.11792	1.9302	2.5850	1.79	2.40
	KP-3	5	2.0690	.51741	.23139	1.4266	2.7115	1.39	2.77
	Kontrol	5	.4970	.78357	.35042	-.4759	1.4699	.00	1.79
	Pembanding	5	3.3389	.93134	.41651	2.1825	4.4953	1.95	4.20
	Total	25	2.0255	1.14065	.22813	1.5546	2.4963	.00	4.20
IntH7	KP-1	5	2.9922	.65418	.29256	2.1799	3.8044	1.95	3.58
	KP-2	5	2.5281	.23449	.10487	2.2370	2.8193	2.20	2.77
	KP-3	5	2.1744	1.32898	.59434	.5242	3.8245	.00	3.09
	Kontrol	5	.5278	.84766	.37908	-.5247	1.5803	.00	1.95
	Pembanding	5	3.7263	.77561	.34686	2.7633	4.6894	2.89	4.80
	Total	25	2.3898	1.33363	.26673	1.8393	2.9403	.00	4.80

##### Test of Homogeneity of Variances

Levene Statistic	F	df1	df2	Sig.
Intro hari5	2.078	4	20	.122
Intro hari7	2.460	4	20	.079

##### ANOVA hari ke-5

ln					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	20.605	4	5.151	9.700	.000
Within Groups	10.621	20	.531		
Total	31.226	24			

**Multiple Comparisons hari ke-5**

Dependent Variable : ln

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval for Difference	
					Lower Bound	Upper Bound
KP-1	KP-2	-.29285	.46090	.532	-1.2543	.6686
	KP-3	-.10426	.46090	.823	-1.0657	.8572
	Kontrol	1.46778(*)	.46090	.005	.5064	2.4292
KP-2	Pembanding	-1.37417(*)	.46090	.007	-2.3356	-.4128
	KP-1	.29285	.46090	.532	-.6686	1.2543
	KP-3	.18859	.46090	.687	-.7728	1.1500
	Kontrol	1.76062(*)	.46090	.001	.7992	2.7220
KP-3	Pembanding	-1.08132(*)	.46090	.029	-2.0427	-.1199
	KP-1	.10426	.46090	.823	-.8572	1.0657
	KP-2	-.18859	.46090	.687	-1.1500	.7728
	Kontrol	1.57204(*)	.46090	.003	.6106	2.5335
Kontrol	Pembanding	-1.26991(*)	.46090	.012	-2.2313	-.3085
	KP-1	-1.46778(*)	.46090	.005	-2.4292	-.5064
	KP-2	-1.76062(*)	.46090	.001	-2.7220	-.7992
	KP-3	-1.57204(*)	.46090	.003	-2.5335	-.6106
Pembanding	Pembanding	-2.84194(*)	.46090	.000	-3.8034	-1.8805
	KP-1	1.37417(*)	.46090	.007	.4128	2.3356
	KP-2	1.08132(*)	.46090	.029	.1199	2.0427
	KP-3	1.26991(*)	.46090	.012	.3085	2.2313
	Kontrol	2.84194(*)	.46090	.000	1.8805	3.8034

\*. The mean difference is significant at the 0.05 level.

**ANOVA hari ke-7**

ln

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	28.409	4	7.102	9.949	.000
Within Groups	14.277	20	.714		
Total	42.686	24			



### Multiple Comparisons hari ke-7

Dependent Variable : ln

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval for Difference	
					Lower Bound	Upper Bound
KP-1	KP-2	.46402	.53436	.395	-.6506	1.5787
	KP-3	.81781	.53436	.142	-.2968	1.9325
	Kontrol	2.46435(*)	.53436	.000	1.3497	3.5790
Pembanding	KP-1	-.73417	.53436	.185	-1.8488	.3805
	KP-2	-.46402	.53436	.395	-1.5787	.6506
	KP-3	.35379	.53436	.515	-.7609	1.4684
	Kontrol	2.00033(*)	.53436	.001	.8857	3.1150
KP-2	Pembanding	-1.19820(*)	.53436	.036	-2.3128	-.0835
	KP-1	-.81781	.53436	.142	-1.9325	.2968
	KP-2	-.35379	.53436	.515	-1.4684	.7609
	Kontrol	1.64654(*)	.53436	.006	.5319	2.7612
KP-3	Pembanding	-1.55199(*)	.53436	.009	-2.6666	-.4373
	KP-1	-2.46435(*)	.53436	.000	-3.5790	-1.3497
	KP-2	-2.00033(*)	.53436	.001	-3.1150	-.8857
	KP-3	-1.64654(*)	.53436	.006	-2.7612	-.5319
Kontrol	Pembanding	-3.19853(*)	.53436	.000	-4.3132	-2.0839
	KP-1	.73417	.53436	.185	-.3805	1.8488
	KP-2	1.19820(*)	.53436	.036	.0835	2.3128
	KP-3	1.55199(*)	.53436	.009	.4373	2.6666
Pembanding	Kontrol	3.19853(*)	.53436	.000	2.0839	4.3132

\*. The mean difference is significant at the 0.05 level.

## 2. Pengunggan (*Mounting*)

### Descriptive Statistics

ln		N	Mean	St. Dev	St. Error	95% Conf. Intrv. for Mean		Min	Max
						Lower Bound	Upper Bound		
MntH5	KP-1	5	.2197	.49131	.21972	-.3903	.8298	.00	1.10
	KP-2	5	.1386	.30998	.13863	-.2463	.5235	.00	.69
	KP-3	5	.1386	.30998	.13863	-.2463	.5235	.00	.69
	Kontrol	5	.0000	.00000	.00000	.0000	.0000	.00	.00
	Pembanding	5	.4970	.78357	.35042	-.4759	1.4699	.00	.179
	Total	25	.1988	.45050	.09010	.0128	.3847	.00	.179
MntH7	KP-1	5	1.0694	.76582	.34249	.1185	2.0203	.00	1.95
	KP-2	5	.2197	.49131	.21972	-.3903	.8298	.00	1.10
	KP-3	5	.2197	.49131	.21972	-.3903	.8298	.00	1.10

Kontrol	5	.0000	.00000	.00000	.0000	.0000	.00	.00
Pembanding	5	.9811	.97631	.43662	-.2312	2.1933	.00	2.20
Total	25	.4980	.73324	.14665	.1953	.8007	.00	2.20

### Test of Homogeneity of Variances

Levene Statistic	F	df1	df2	Sig.
Mount hari5	3.656	4	20	.022
Mount hari7	4.088	4	20	.014

### ANOVA hari ke-5

ln

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.681	4	.170	0.812	.532
Within Groups	4.190	20	.210		
Total	4.871	24			

### Multiple Comparisons hari ke-5

Dependent Variable : ln

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval for Difference	
					Lower Bound	Upper Bound
KP-1	KP-2	.08109	.28949	.782	-.5228	.6850
	KP-3	.08109	.28949	.782	-.5228	.6850
	Kontrol	.21972	.28949	.457	-.3841	.8236
	Pembanding	-.27726	.28949	.350	-.8811	.3266
KP-2	KP-1	-.08109	.28949	.782	-.6850	.5228
	KP-3	.00000	.28949	1.000	-.6039	.6039
	Kontrol	.13863	.28949	.637	-.4652	.7425
	Pembanding	-.35835	.28949	.230	-.9622	.2455
KP-3	KP-1	-.08109	.28949	.782	-.6850	.5228
	KP-2	.00000	.28949	1.000	-.6039	.6039
	Kontrol	.13863	.28949	.637	-.4652	.7425
	Pembanding	-.35835	.28949	.230	-.9622	.2455

Kontrol	KP-1	-.21972	.28949	.457	-.8236	.3841
	KP-2	-.13863	.28949	.637	-.7425	.4652
	KP-3	-.13863	.28949	.637	-.7425	.4652
Pembanding	Pembanding	-.49698	.28949	.101	-1.1008	.1069
	KP-1	.27726	.28949	.350	-.3266	.8811
	KP-2	.35835	.28949	.230	-.2455	.9622
	KP-3	.35835	.28949	.230	-.2455	.9622
	Kontrol	.49698	.28949	.101	-.1069	1.1008

\*. The mean difference is significant at the 0.05 level.

### ANOVA hari ke-7

ln					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.814	4	1.203	2.975	.044
Within Groups	8.090	20	.404		
Total	12.903	24			

### Multiple Comparisons hari ke-7

Dependent Variable : ln

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval for Difference	
					Lower Bound	Upper Bound
KP-1	KP-2	.84970*	.40224	.047	.0106	1.6888
	KP-3	.84970*	.40224	.047	.0106	1.6888
	Kontrol	1.06942*	.40224	.015	.2304	1.9085
	Pembanding	.08837	.40224	.828	-.7507	.9274
KP-2	KP-1	-.84970*	.40224	.047	-1.6888	-.0106
	KP-3	.00000	.40224	1.000	-.8391	.8391
	Kontrol	.21972	.40224	.591	-.6193	1.0588
	Pembanding	-.76133	.40224	.073	-1.6004	.0777
KP-3	KP-1	-.84970*	.40224	.047	-1.6888	-.0106
	KP-2	.00000	.40224	1.000	-.8391	.8391
	Kontrol	.21972	.40224	.591	-.6193	1.0588
	Pembanding	-.76133	.40224	.073	-1.6004	.0777

Kontrol	KP-1	-1.06942*	.40224	.015	-1.9085	-.2304
	KP-2	-.21972	.40224	.591	-1.0588	.6193
	KP-3	-.21972	.40224	.591	-1.0588	.6193
	Pembanding	-.98105*	.40224	.024	-1.8201	-.1420
Pembanding	KP-1	-.08837	.40224	.828	-.9274	.7507
	KP-2	.76133	.40224	.073	-.0777	1.6004
	KP-3	.76133	.40224	.073	-.0777	1.6004
	Kontrol	.98105*	.40224	.024	.1420	1.8201

\*. The mean difference is significant at the 0.05 level.

## LAMPIRAN 5

### FOTO – FOTO PENELITIAN

#### Alat dan Bahan Penelitian



#### Hewan Coba



## **Pengamatan Hewan Coba**

### ***Introducing***



### ***Mounting***

