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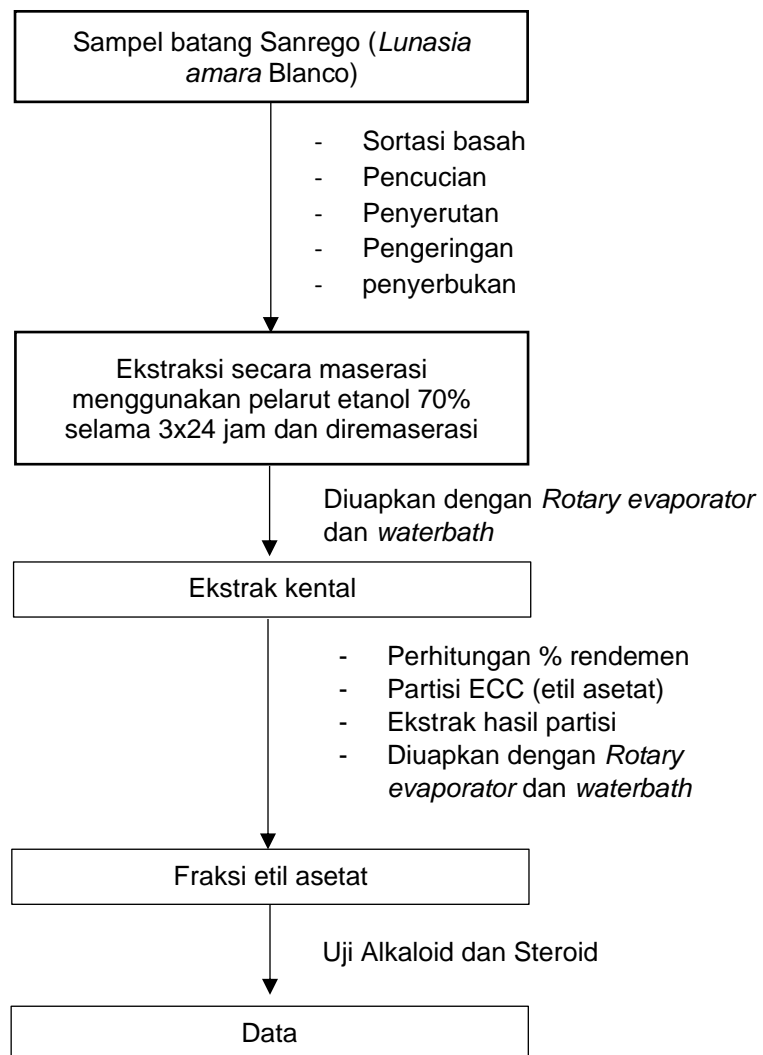
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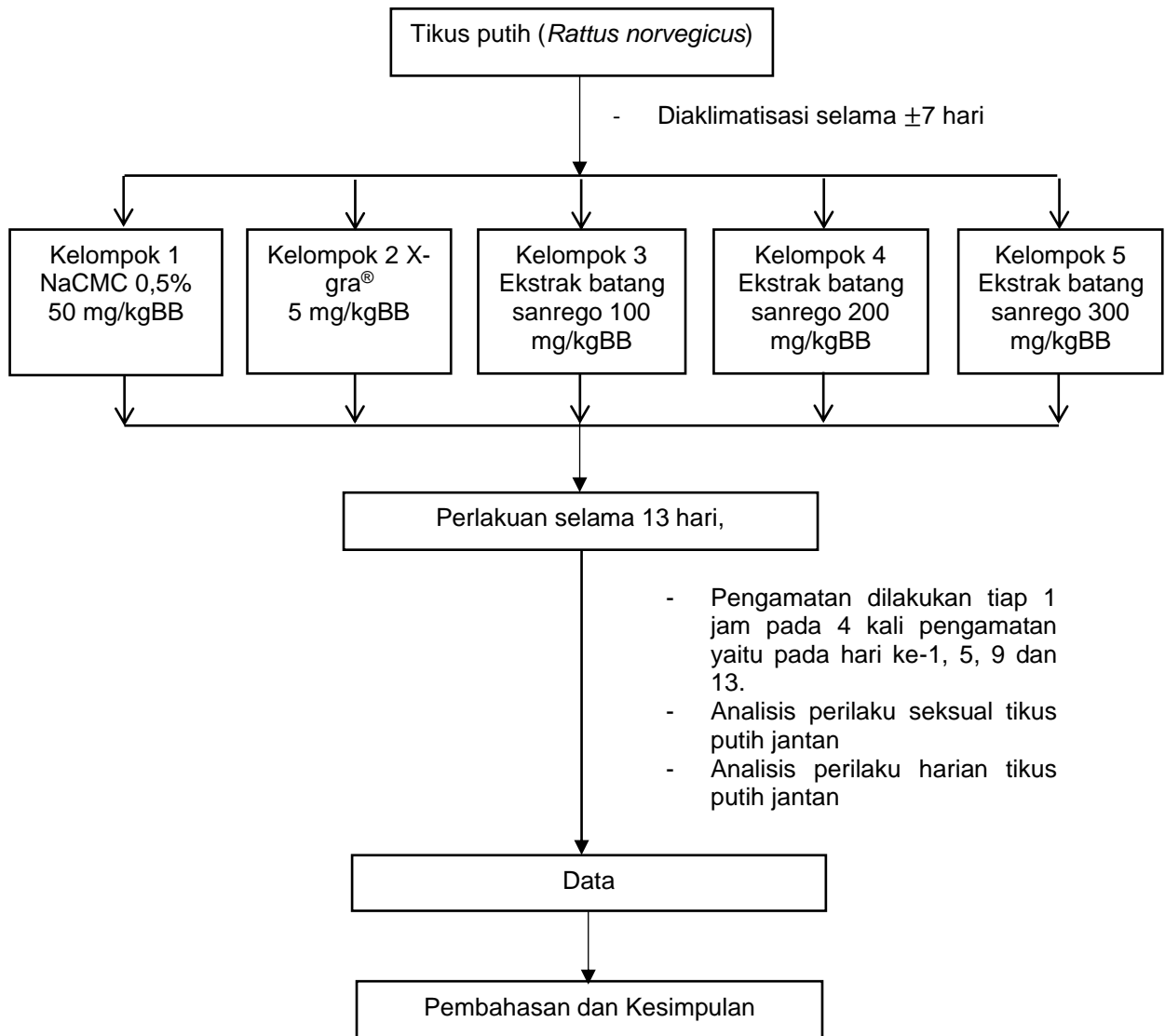
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Lampiran 1 Skema Kerja

A. Pembuatan Fraksi Etil Asetat



B. Skema Kerja Umum



Lampiran 2. Perhitungan

Lampiran 2.1 Perhitungan dosis

1. NaCMC 0,5% = $\frac{0,5 \text{ g}}{100 \text{ mL}} \times 1000 \text{ mL} = 5 \text{ g}$ (ditimbang)
= 1000 mL (air suling)

2. Suspensi X-Gra® = 51, 37 mg/kgBB
= 0,5137 mg/gBB
= 10, 274 mg/ 200 gBB/ 2mL
= 51, 37 mg/ 100mL
= 0, 05137 g/ 100 mL

3. Dosis 100 mg/kgBB = 100 mg/kgBB
= 0.1 mg/ gBB
= 20 mg/ 200 gBB/ 2mL
= 100 mg/10mL
= 0,1 g/ 10 mL

4. Dosis 200 mg/kgBB = 200 mg/kgBB
= 0,2 mg/ gBB
= 40 mg/ 200 gBB/ 2mL
= 200 mg/10mL
= 0,2 g/ 10 mL

5. Dosis 300 mg/kgBB = 300 mg/kgBB
= 0.3 mg/ gBB
= 60 mg/ 200 gBB/ 2mL
= 300 mg/10mL
= 0,3 g/ 10 mL

Lampiran 2.2 Perhitungan susut pengeringan

$$\begin{aligned}
 \text{Susut pengeringan (\%)} &= \frac{\text{Berat awal simplisia (g)} - \text{Berat akhir simplisia (g)}}{\text{Berat awal simplisia (g)}} \times 100\% \\
 &= \frac{2,0001 - (22,3800 - 20,3470)}{2,0011} \times 100\% \\
 &= 1, 5941\%
 \end{aligned}$$

Lampiran 2.3 Perhitungan rendemen ekstrak

Tabel 1. Hasil persen rendemen ekstrak

Nama Sampel	Bobot Simplisia (g)	Bobot ekstrak (g)	%Rendemen
E	80,83	3.300	2,4494
EA	7,83	3.300	0,2373

Keterangan :

E = Ekstrak etanol 70%

EA = Fraksi etil asetat

Persen rendemen ekstrak etanol 70%

$$\begin{aligned} \text{Rendemen (\%)} &= \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia}} \times 100\% \\ &= \frac{80,83 \text{ gram}}{3,300 \text{ gram}} \times 100\% \\ &= 2,4494\% \end{aligned}$$

Persen rendemen fraksi etil asetat

$$\begin{aligned} \text{Rendemen (\%)} &= \frac{\text{Bobot akhir ekstrak (g)}}{\text{Bobot awal simplisia}} \times 100\% \\ &= \frac{7,83 \text{ gram}}{3,300 \text{ gram}} \times 100\% \\ &= 0,2373\% \end{aligned}$$

Lampiran 2.4 Perhitungan nilai Rf

$$R_f = \frac{\text{Jarak tempuh noda}}{\text{Jarak tempuh eluen}}$$

- Rf Sampel

$$R_f = \frac{2,4}{7,9}$$

$$R_f = 0,30$$

Lampiran 2.5 Perhitungan Rumus *Mating Behavior*

$$1. \% \text{ intromisi} = \frac{\text{jumlah intromisi}}{\text{Jumlah yang dipasangkan}} \times 100$$

$$- \% \text{ intromisi NaCMC} = \frac{95}{20} \times 100 = 475$$

$$- \% \text{ intromisi X - Gra} = \frac{595}{20} \times 100 = 2.975$$

$$- \% \text{ intromisi 100mg} = \frac{513}{20} \times 100 = 2.565$$

$$- \% \text{ intromisi } 200\text{mg} = \frac{666}{20} \times 100 = 3.330$$

$$- \% \text{ intromisi } 300\text{mg} = \frac{345}{20} \times 100 = 1.725$$

$$2. \% \text{ Intromisi ratio} = \frac{\text{jumlah intromisi}}{\text{Jumlah mounting} + \text{jumlah intromisi}} \times 100$$

$$- \% \text{ Intromisi ratio NaCMC} = \frac{95}{185+95} \times 100 = 33,93$$

$$- \% \text{ Intromisi ratio X - Gra} = \frac{595}{501+595} \times 100 = 54,29$$

$$- \% \text{ Intromisi ratio } 100\text{mg} = \frac{513}{471+595} \times 100 = 52,13$$

$$- \% \text{ Intromisi ratio } 200\text{mg} = \frac{666}{555+666} \times 100 = 54,55$$

$$- \% \text{ Intromisi ratio } 300\text{mg} = \frac{345}{447+345} \times 100 = 43,56$$

$$3. \% \text{ Ejakulasi} = \frac{\text{Jumlah ejakulasi}}{\text{Jumlah yang dipasangkan}} \times 100$$

$$- \% \text{ Ejakulasi NaCMC} = \frac{0}{20} \times 100 = 0$$

$$- \% \text{ Ejakulasi X - Gra} = \frac{15}{20} \times 100 = 75$$

$$- \% \text{ Ejakulasi } 100\text{mg} = \frac{5}{20} \times 100 = 25$$

$$- \% \text{ Ejakulasi } 200\text{mg} = \frac{17}{20} \times 100 = 85$$

$$- \% \text{ Ejakulasi } 300\text{mg} = \frac{2}{20} \times 100 = 20$$

$$4. \text{ Efisiensi kopulasi} = \frac{\text{jumlah intromisi}}{\text{Jumlah mounting}} \times 100$$

$$- \text{ Efisiensi kopulasi NaCMC} = \frac{95}{185} \times 100 = 51,35$$

- Efisiensi kopulasi X – Gra = $\frac{595}{501} \times 100 = 118,8$
- Efisiensi kopulasi 100mg = $\frac{513}{471} \times 100 = 108,9$
- Efisiensi kopulasi 200mg = $\frac{666}{555} \times 100 = 120$
- Efisiensi kopulasi 300mg = $\frac{345}{447} \times 100 = 77,18$

5. Efisiensi interkopulasi = waktu rata-rata antara intromisi

- Efisiensi interkopulasi NaCMC = Menit ke-38
- Efisiensi interkopulasi X-Gra = Menit ke-11
- Efisiensi interkopulasi 100mg = Menit ke-16
- Efisiensi interkopulasi 200mg = Menit ke-12
- Efisiensi interkopulasi 300mg = Menit ke-26

Lampiran 3. Dokumentasi penelitian



**Gambar 1. Sampel batang sanrego
(*Lunasia amara* Blanco.)**



**Gambar 2. Proses penyerutan
sampel batang sanrego**



**Gambar 3. Pengeringan serbuk kasar
sampel**



Gambar 4. Penimbangan Sampel



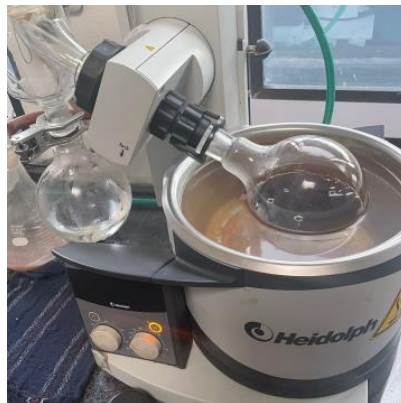
Gambar 5. Susut pengeringan sampel



Gambar 6. Ekstraksi sampel



Gambar 7. Penyaringan sampel



Gambar 8. Penguapan pelarut



Gambar 9. Hasil ekstrak



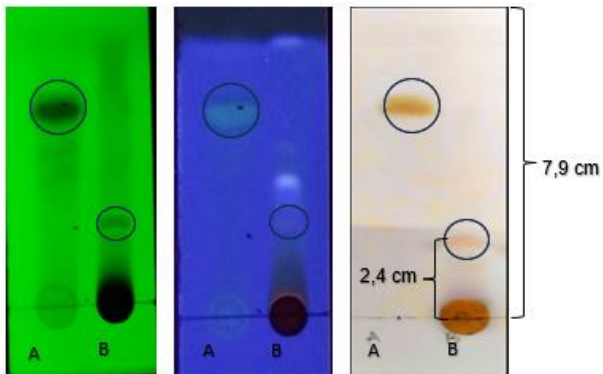
Gambar 10. Perhitungan persen rendemen



Gambar 11. Partisi ekstrak



Gambar 12. Analisis Kromatografi Lapis Tipis



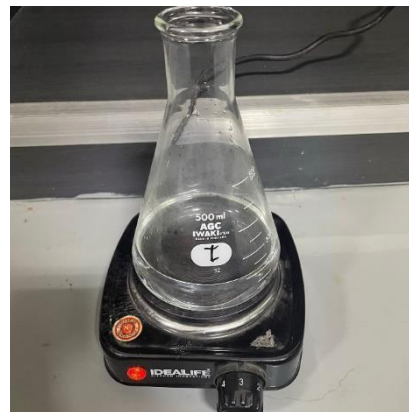
Gambar 13. Profil KLT Fraksi



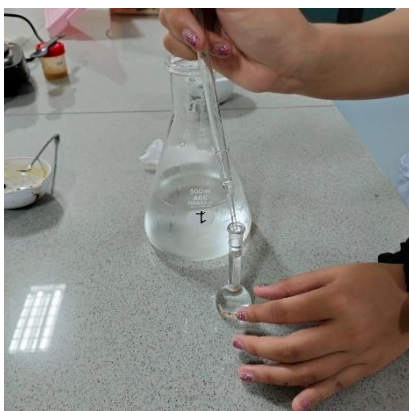
Gambar 14. Penyiapan hewan uji



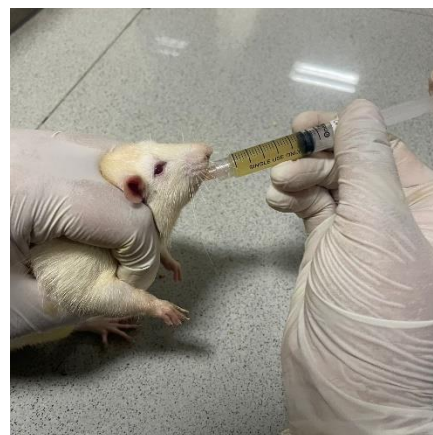
Gambar 15. Penyiapan bahan uji



Gambar 16. Pembuatan larutan koloidal NaCMC 0,5%



Gambar 17. Pembuatan suspensi fraksi larut etil asetat



Gambar 18. Proses pemberian perlakuan pada hewan uji



Gambar 19. Proses *Introduction*



Gambar 20. Proses *Mounting*



Gambar 21. Proses *Intromission*

Lampiran 4. Data hasil statistik

Lampiran 4.1 Data hasil statistik *Frequency*

ANOVA						
		Sum of Squares	df	Mean Square	F	Sig.
FM	Between Groups	60318.700	4	15079.675	26.597	.000
	Within Groups	8504.500	15	566.967		
	Total	68823.200	19			
FI	Between Groups	20854.700	4	5213.675	6.453	.003
	Within Groups	12118.250	15	807.883		
	Total	32972.950	19			
FI _n	Between Groups	60006.700	4	15001.675	6.845	.002
	Within Groups	32876.250	15	2191.750		
	Total	92882.950	19			

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
FM	Kontrol NaCMC	Kontrol X-Gra	-143.75000*	16.83696	.000	-195.7413	-91.7587
		Dosis 100 mg/kgBB	-121.75000*	16.83696	.000	-173.7413	-69.7587
		Dosis 200 mg/kgBB	-151.00000*	16.83696	.000	-202.9913	-99.0087
		Dosis 300 mg/kgBB	-90.00000*	16.83696	.001	-141.9913	-38.0087
	Kontrol X-Gra	Kontrol NaCMC	143.75000*	16.83696	.000	91.7587	195.7413
		Dosis 100 mg/kgBB	22.00000	16.83696	.691	-29.9913	73.9913
		Dosis 200 mg/kgBB	-7.25000	16.83696	.992	-59.2413	44.7413
		Dosis 300 mg/kgBB	53.75000*	16.83696	.041	1.7587	105.7413
	Dosis 100 mg/kgBB	Kontrol NaCMC	121.75000*	16.83696	.000	69.7587	173.7413
		Kontrol X-Gra	-22.00000	16.83696	.691	-73.9913	29.9913
		Dosis 200 mg/kgBB	-29.25000	16.83696	.442	-81.2413	22.7413
		Dosis 300 mg/kgBB	31.75000	16.83696	.366	-20.2413	83.7413
	Dosis 200 mg/kgBB	Kontrol NaCMC	151.00000*	16.83696	.000	99.0087	202.9913
		Kontrol X-Gra	7.25000	16.83696	.992	-44.7413	59.2413
		Dosis 100 mg/kgBB	29.25000	16.83696	.442	-22.7413	81.2413
		Dosis 300 mg/kgBB	61.00000*	16.83696	.018	9.0087	112.9913
	Dosis 300 mg/kgBB	Kontrol NaCMC	90.00000*	16.83696	.001	38.0087	141.9913
		Kontrol X-Gra	-53.75000*	16.83696	.041	-105.7413	-1.7587
		Dosis 100 mg/kgBB	-31.75000	16.83696	.366	-83.7413	20.2413
		Dosis 200 mg/kgBB	-61.00000*	16.83696	.018	-112.9913	-9.0087
FI	Kontrol NaCMC	Kontrol X-Gra	-80.75000*	20.09830	.008	-142.8120	-18.6880
		Dosis 100 mg/kgBB	-73.00000*	20.09830	.018	-135.0620	-10.9380
		Dosis 200 mg/kgBB	-91.75000*	20.09830	.003	-153.8120	-29.6880
		Dosis 300 mg/kgBB	-65.50000*	20.09830	.036	-127.5620	-3.4380
	Kontrol X-Gra	Kontrol NaCMC	80.75000*	20.09830	.008	18.6880	142.8120
		Dosis 100 mg/kgBB	7.75000	20.09830	.995	-54.3120	69.8120
		Dosis 200 mg/kgBB	-11.00000	20.09830	.981	-73.0620	51.0620
		Dosis 300 mg/kgBB	15.25000	20.09830	.939	-46.8120	77.3120
	Dosis 100 mg/kgBB	Kontrol NaCMC	73.00000*	20.09830	.018	10.9380	135.0620
		Kontrol X-Gra	-7.75000	20.09830	.995	-69.8120	54.3120
		Dosis 200 mg/kgBB	-18.75000	20.09830	.880	-80.8120	43.3120
		Dosis 300 mg/kgBB	7.50000	20.09830	.995	-54.5620	69.5620
	Dosis 200 mg/kgBB	Kontrol NaCMC	91.75000*	20.09830	.003	29.6880	153.8120
		Kontrol X-Gra	11.00000	20.09830	.981	-51.0620	73.0620
		Dosis 100 mg/kgBB	18.75000	20.09830	.880	-43.3120	80.8120
		Dosis 300 mg/kgBB	26.25000	20.09830	.692	-35.8120	88.3120

	Dosis 300 mg/kgBB	Kontrol NaCMC	65.50000*	20.09830	.036	3.4380	127.5620
		Kontrol X-Gra	-15.25000	20.09830	.939	-77.3120	46.8120
		Dosis 100 mg/kgBB	-7.50000	20.09830	.995	-69.5620	54.5620
		Dosis 200 mg/kgBB	-26.25000	20.09830	.692	-88.3120	35.8120
Fln	Kontrol NaCMC	Kontrol X-Gra	-134.75000*	33.10400	.008	-236.9727	-32.5273
		Dosis 100 mg/kgBB	-110.75000*	33.10400	.031	-212.9727	-8.5273
		Dosis 200 mg/kgBB	-154.00000*	33.10400	.002	-256.2227	-51.7773
		Dosis 300 mg/kgBB	-69.00000	33.10400	.276	-171.2227	33.2227
	Kontrol X-Gra	Kontrol NaCMC	134.75000*	33.10400	.008	32.5273	236.9727
		Dosis 100 mg/kgBB	24.00000	33.10400	.947	-78.2227	126.2227
		Dosis 200 mg/kgBB	-19.25000	33.10400	.976	-121.4727	82.9727
		Dosis 300 mg/kgBB	65.75000	33.10400	.318	-36.4727	167.9727
	Dosis 100 mg/kgBB	Kontrol NaCMC	110.75000*	33.10400	.031	8.5273	212.9727
		Kontrol X-Gra	-24.00000	33.10400	.947	-126.2227	78.2227
		Dosis 200 mg/kgBB	-43.25000	33.10400	.692	-145.4727	58.9727
		Dosis 300 mg/kgBB	41.75000	33.10400	.717	-60.4727	143.9727
	Dosis 200 mg/kgBB	Kontrol NaCMC	154.00000*	33.10400	.002	51.7773	256.2227
		Kontrol X-Gra	19.25000	33.10400	.976	-82.9727	121.4727
		Dosis 100 mg/kgBB	43.25000	33.10400	.692	-58.9727	145.4727
		Dosis 300 mg/kgBB	85.00000	33.10400	.127	-17.2227	187.2227
Dosis 300 mg/kgBB	Kontrol NaCMC	69.00000	33.10400	.276	-33.2227	171.2227	
	Kontrol X-Gra	-65.75000	33.10400	.318	-167.9727	36.4727	
	Dosis 100 mg/kgBB	-41.75000	33.10400	.717	-143.9727	60.4727	
	Dosis 200 mg/kgBB	-85.00000	33.10400	.127	-187.2227	17.2227	

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

Tests of Normality

	Perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
FI	Kontrol NaCMC	.246	4	.	.925	4	.565
	Kontrol X-Gra	.161	4	.	.991	4	.962
	Dosis 100 mg/kgBB	.197	4	.	.975	4	.874
	Dosis 200 mg/kgBB	.145	4	.	.999	4	.998
	Dosis 300 mg/kgBB	.203	4	.	.969	4	.836
FM	Kontrol NaCMC	.211	4	.	.961	4	.787
	Kontrol X-Gra	.214	4	.	.975	4	.870
	Dosis 100 mg/kgBB	.193	4	.	.974	4	.868
	Dosis 200 mg/kgBB	.204	4	.	.986	4	.936
	Dosis 300 mg/kgBB	.275	4	.	.888	4	.373
Fln	Kontrol NaCMC	.252	4	.	.903	4	.444
	Kontrol X-Gra	.260	4	.	.890	4	.382
	Dosis 100 mg/kgBB	.257	4	.	.915	4	.511
	Dosis 200 mg/kgBB	.240	4	.	.936	4	.628
	Dosis 300 mg/kgBB	.228	4	.	.951	4	.722

Lampiran 4.1 Data hasil statistik *Latency*

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
Li	NaCMC	.236	4	.	.911	4	.488
	X-Gra	.283	4	.	.863	4	.272
	Dosis 100mg/kgBB	.314	4	.	.854	4	.240
	Dosis 200 mg/kgBB	.214	4	.	.963	4	.798
	Dosis 300mg/kgBB	.192	4	.	.971	4	.850
LM	NaCMC	.307	4	.	.729	4	.024
	X-Gra	.159	4	.	.993	4	.970
	Dosis 100mg/kgBB	.151	4	.	.993	4	.972
	Dosis 200 mg/kgBB	.250	4	.	.961	4	.783
	Dosis 300mg/kgBB	.151	4	.	.993	4	.972
Lin	NaCMC	.298	4	.	.849	4	.224
	X-Gra	.227	4	.	.952	4	.726
	Dosis 100mg/kgBB	.415	4	.	.716	4	.017
	Dosis 200 mg/kgBB	.300	4	.	.915	4	.507
	Dosis 300mg/kgBB	.329	4	.	.895	4	.406

		ANOVA				
		Sum of Squares	df	Mean Square	F	Sig.
Li	Between Groups	513.200	4	128.300	12.200	.000
	Within Groups	157.750	15	10.517		
	Total	670.950	19			
LM	Between Groups	831.800	4	207.950	8.150	.001
	Within Groups	382.750	15	25.517		
	Total	1214.550	19			
Lin	Between Groups	2004.700	4	501.175	27.792	.000
	Within Groups	270.500	15	18.033		
	Total	2275.200	19			

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Li	NaCMC	X-Gra	12.500 [*]	2.293	.001	5.42	19.58
		Dosis 100mg/kgBB	10.000 [*]	2.293	.004	2.92	17.08
		Dosis 200 mg/kgBB	14.000 [*]	2.293	.000	6.92	21.08
		Dosis 300mg/kgBB	5.750	2.293	.141	-1.33	12.83
	X-Gra	NaCMC	-12.500 [*]	2.293	.001	-19.58	-5.42
		Dosis 100mg/kgBB	-2.500	2.293	.809	-9.58	4.58
		Dosis 200 mg/kgBB	1.500	2.293	.963	-5.58	8.58
		Dosis 300mg/kgBB	-6.750	2.293	.065	-13.83	.33
	Dosis 100mg/kgBB	NaCMC	-10.000 [*]	2.293	.004	-17.08	-2.92
		X-Gra	2.500	2.293	.809	-4.58	9.58
		Dosis 200 mg/kgBB	4.000	2.293	.438	-3.08	11.08
		Dosis 300mg/kgBB	-4.250	2.293	.382	-11.33	2.83
	Dosis 200 mg/kgBB	NaCMC	-14.000 [*]	2.293	.000	-21.08	-6.92
		X-Gra	-1.500	2.293	.963	-8.58	5.58
		Dosis 100mg/kgBB	-4.000	2.293	.438	-11.08	3.08
		Dosis 300mg/kgBB	-8.250 [*]	2.293	.019	-15.33	-1.17
	Dosis 300mg/kgBB	NaCMC	-5.750	2.293	.141	-12.83	1.33
		X-Gra	6.750	2.293	.065	-.33	13.83
		Dosis 100mg/kgBB	4.250	2.293	.382	-2.83	11.33
		Dosis 200 mg/kgBB	8.250 [*]	2.293	.019	1.17	15.33
LM	NaCMC	X-Gra	16.750 [*]	3.572	.002	5.72	27.78
		Dosis 100mg/kgBB	12.500 [*]	3.572	.023	1.47	23.53
		Dosis 200 mg/kgBB	16.000 [*]	3.572	.003	4.97	27.03
		Dosis 300mg/kgBB	5.500	3.572	.554	-5.53	16.53
	X-Gra	NaCMC	-16.750 [*]	3.572	.002	-27.78	-5.72
		Dosis 100mg/kgBB	-4.250	3.572	.757	-15.28	6.78
		Dosis 200 mg/kgBB	-.750	3.572	1.000	-11.78	10.28
		Dosis 300mg/kgBB	-11.250 [*]	3.572	.045	-22.28	-.22
	Dosis 100mg/kgBB	NaCMC	-12.500 [*]	3.572	.023	-23.53	-1.47
		X-Gra	4.250	3.572	.757	-6.78	15.28
		Dosis 200 mg/kgBB	3.500	3.572	.860	-7.53	14.53
		Dosis 300mg/kgBB	-7.000	3.572	.330	-18.03	4.03
	Dosis 200 mg/kgBB	NaCMC	-16.000 [*]	3.572	.003	-27.03	-4.97
		X-Gra	.750	3.572	1.000	-10.28	11.78
		Dosis 100mg/kgBB	-3.500	3.572	.860	-14.53	7.53
		Dosis 300mg/kgBB	-10.500	3.572	.066	-21.53	.53
	Dosis 300mg/kgBB	NaCMC	-5.500	3.572	.554	-16.53	5.53
		X-Gra	11.250 [*]	3.572	.045	.22	22.28
		Dosis 100mg/kgBB	7.000	3.572	.330	-4.03	18.03
		Dosis 200 mg/kgBB	10.500	3.572	.066	-.53	21.53
Lin	NaCMC	X-Gra	26.250 [*]	3.003	.000	16.98	35.52
		Dosis 100mg/kgBB	21.250 [*]	3.003	.000	11.98	30.52
		Dosis 200 mg/kgBB	26.000 [*]	3.003	.000	16.73	35.27
		Dosis 300mg/kgBB	11.750 [*]	3.003	.010	2.48	21.02
	X-Gra	NaCMC	-26.250 [*]	3.003	.000	-35.52	-16.98
		Dosis 100mg/kgBB	-5.000	3.003	.482	-14.27	4.27
		Dosis 200 mg/kgBB	-.250	3.003	1.000	-9.52	9.02
		Dosis 300mg/kgBB	-14.500 [*]	3.003	.002	-23.77	-5.23
	Dosis 100mg/kgBB	NaCMC	-21.250 [*]	3.003	.000	-30.52	-11.98
		X-Gra	5.000	3.003	.482	-4.27	14.27
		Dosis 200 mg/kgBB	4.750	3.003	.530	-4.52	14.02
		Dosis 300mg/kgBB	-9.500 [*]	3.003	.043	-18.77	-.23
	Dosis 200 mg/kgBB	NaCMC	-26.000 [*]	3.003	.000	-35.27	-16.73
		X-Gra	.250	3.003	1.000	-9.02	9.52
		Dosis 100mg/kgBB	-4.750	3.003	.530	-14.02	4.52
		Dosis 300mg/kgBB	-14.250 [*]	3.003	.002	-23.52	-4.98
	Dosis 300mg/kgBB	NaCMC	-11.750 [*]	3.003	.010	-21.02	-2.48
		X-Gra	14.500 [*]	3.003	.002	5.23	23.77
		Dosis 100mg/kgBB	9.500 [*]	3.003	.043	.23	18.77
		Dosis 200 mg/kgBB	14.250 [*]	3.003	.002	4.98	23.52

Lampiran 4.3 Hasil statistik *Ejaculatory Frequency* dan *Ejaculatory Latency*

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Kelompok_Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
EF	Kontrol NaCMC	.	5	.	.	5	.
	Kontrol X-Gra	.241	5	.200 [*]	.821	5	.119
	Dosis 100 mg/kgBB	.241	5	.200 [*]	.821	5	.119
	Dosis 200 mg/kgBB	.287	5	.200 [*]	.914	5	.490
	Dosis 300 mg/kgBB	.473	5	.001	.552	5	.000
EL	Kontrol NaCMC	.	5	.	.	5	.
	Kontrol X-Gra	.290	5	.197	.888	5	.346
	Dosis 100 mg/kgBB	.222	5	.200 [*]	.850	5	.195
	Dosis 200 mg/kgBB	.234	5	.200 [*]	.951	5	.744
	Dosis 300 mg/kgBB	.473	5	.001	.552	5	.000

- Uji Kruskal Wallis

Test Statistics^{a,b}

		EF
Kruskal-Wallis H		16.973
df		4
Asymp. Sig.		.002

- Uji *Mann-Whitney Ejaculatory Frequency*

- Kontrol NaCMC terhadap Kontrol X-Gra

Test Statistics^a

		EF
Mann-Whitney U		.000
Wilcoxon W		15.000
Z		-2.805
Asymp. Sig. (2-tailed)		.005
Exact Sig. [2*(1-tailed Sig.)]		.008 ^b

- **Kontrol NaCMC terhadap Dosis 100 mg/kgBB**

Test Statistics^a

	EF
Mann-Whitney U	5.000
Wilcoxon W	20.000
Z	-1.936
Asymp. Sig. (2-tailed)	.053
Exact Sig. [2*(1-tailed Sig.)]	.151 ^b

- **Kontrol NaCMC terhadap Dosis 200 mg/kgBB**

Test Statistics^a

	EF
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.795
Asymp. Sig. (2-tailed)	.005
Exact Sig. [2*(1-tailed Sig.)]	.008 ^b

- **Kontrol NaCMC terhadap Dosis 300 mg/kgBB**

Test Statistics^a

	EF
Mann-Whitney U	10.000
Wilcoxon W	25.000
Z	-1.000
Asymp. Sig. (2-tailed)	.317
Exact Sig. [2*(1-tailed Sig.)]	.690 ^b

- **Kontrol X-Gra terhadap Dosis 100 mg/kgBB**

Test Statistics^a

	EF
Mann-Whitney U	2.000
Wilcoxon W	17.000
Z	-2.278
Asymp. Sig. (2-tailed)	.023
Exact Sig. [2*(1-tailed Sig.)]	.032 ^b

- **Kontrol X-Gra terhadap Dosis 200 mg/kgBB**
Test Statistics^a

	EF
Mann-Whitney U	11.000
Wilcoxon W	26.000
Z	-.328
Asymp. Sig. (2-tailed)	.743
Exact Sig. [2*(1-tailed Sig.)]	.841 ^b

- **Kontrol X-Gra terhadap Dosis 300 mg/kgBB**
Test Statistics^a

	EF
Mann-Whitney U	1.000
Wilcoxon W	16.000
Z	-2.520
Asymp. Sig. (2-tailed)	.012
Exact Sig. [2*(1-tailed Sig.)]	.016 ^b

- **Dosis 100 mg/kgBB terhadap Dosis 200 mg/kgBB**
Test Statistics^a

	EF
Mann-Whitney U	3.500
Wilcoxon W	18.500
Z	-1.921
Asymp. Sig. (2-tailed)	.055
Exact Sig. [2*(1-tailed Sig.)]	.056 ^b

- **Dosis 100 mg/kgBB terhadap Dosis 300 mg/kgBB**

Test Statistics^a

	EF
Mann-Whitney U	8.000
Wilcoxon W	23.000
Z	-1.076
Asymp. Sig. (2-tailed)	.282
Exact Sig. [2*(1-tailed Sig.)]	.421 ^b

- **Dosis 200 mg/kgBB terhadap Dosis 300 mg/kgBB**

Test Statistics^a

	EF
Mann-Whitney U	1.500
Wilcoxon W	16.500
Z	-2.386
Asymp. Sig. (2-tailed)	.017
Exact Sig. [2*(1-tailed Sig.)]	.016 ^b

- **Uji Mann-Whitney Ejaculatory Latency**

- **Kontrol NaCMC terhadap Kontrol X-Gra**

Test Statistics^a

	EL
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.785
Asymp. Sig. (2-tailed)	.005
Exact Sig. [2*(1-tailed Sig.)]	.008 ^b

- **Kontrol NaCMC terhadap Dosis 100 mg/kgBB**

Test Statistics^a

	EL
Mann-Whitney U	5.000
Wilcoxon W	20.000
Z	-1.928
Asymp. Sig. (2-tailed)	.054
Exact Sig. [2*(1-tailed Sig.)]	.151 ^b

- **Kontrol NaCMC terhadap Dosis 200 mg/kgBB**

Test Statistics^a

	EL
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.785
Asymp. Sig. (2-tailed)	.005
Exact Sig. [2*(1-tailed Sig.)]	.008 ^b

- **Kontrol NaCMC terhadap Dosis 300 mg/kgBB**
Test Statistics^a

	EL
Mann-Whitney U	10.000
Wilcoxon W	25.000
Z	-1.000
Asymp. Sig. (2-tailed)	.317
Exact Sig. [2*(1-tailed Sig.)]	.690 ^b

- **Kontrol X-Gra terhadap Dosis 100 mg/kgBB**
Test Statistics^a

	EL
Mann-Whitney U	6.000
Wilcoxon W	21.000
Z	-1.362
Asymp. Sig. (2-tailed)	.173
Exact Sig. [2*(1-tailed Sig.)]	.222 ^b

- **Kontrol X-Gra terhadap Dosis 200 mg/kgBB**
Test Statistics^a

	EL
Mann-Whitney U	12.000
Wilcoxon W	27.000
Z	-.104
Asymp. Sig. (2-tailed)	.917
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^b

- **Kontrol X-Gra terhadap Dosis 300 mg/kgBB**
Test Statistics^a

	EL
Mann-Whitney U	3.000
Wilcoxon W	18.000
Z	-2.048
Asymp. Sig. (2-tailed)	.041
Exact Sig. [2*(1-tailed Sig.)]	.056 ^b

- **Dosis 100 mg/kgBB terhadap Dosis 200 mg/kgBB**
Test Statistics^a

	EL
Mann-Whitney U	4.000
Wilcoxon W	19.000
Z	-1.781
Asymp. Sig. (2-tailed)	.075
Exact Sig. [2*(1-tailed Sig.)]	.095 ^b

- **Dosis 100 mg/kgBB terhadap Dosis 300 mg/kgBB**
Test Statistics^a

	EL
Mann-Whitney U	8.000
Wilcoxon W	23.000
Z	-1.059
Asymp. Sig. (2-tailed)	.290
Exact Sig. [2*(1-tailed Sig.)]	.421 ^b

- **Dosis 200 mg/kgBB terhadap Dosis 300 mg/kgBB**
Test Statistics^a

	EL
Mann-Whitney U	3.000
Wilcoxon W	18.000
Z	-2.048
Asymp. Sig. (2-tailed)	.041
Exact Sig. [2*(1-tailed Sig.)]	.056 ^b

Lampiran 5. Data Hasil Perilaku Kawin

Pengamatan Pertama

Parameter	Kelompok Perlakuan				
	NaCMC	X-Gra	100 mg	200 mg	300 mg
FI	34	140	118	155	85
LI	Menit 17	Menit 12	Menit 14	Menit 11	Menit 12
FM	58	93	82	109	72
LM	Menit 21	Menit 12	Menit 19	Menit 12	Menit 26
FIn	20	88	97	89	44
LIn	Menit 36	Menit 17	Menit 23	Menit 17	Menit 29
FE	0	0	0	0	0
LE	-	-	-	-	-
PE	-	-	-	-	-

Pengamatan kedua

Parameter	Kelompok Perlakuan				
	NaCMC	X-Gra	100 mg	200 mg	300 mg
FI	41	171	135	176	121
LI	Menit 18	Menit 8	Menit 9	Menit 7	Menit 13
FM	75	118	104	138	97
LM	Menit 21	Menit 9	Menit 14	Menit 8	Menit 21
FIn	23	109	100	125	75
LIn	Menit 36	Menit 13	Menit 14	Menit 12	Menit 23
FE	0	1	0	1	0
LE	-	Menit 23	-	Menit 20	-
PE	-	Menit 34	-	Menit 29	-

Pengamatan ketiga

Parameter	Kelompok Perlakuan				
	NaCMC	X-Gra	100 mg	200 mg	300 mg
FI	25	188	160	177	127
LI	Menit 22	Menit 4	Menit 8	Menit 3	Menit 16
FM	30	136	135	141	131
LM	Menit 27	Menit 6	Menit 9	Menit 9	Menit 216
FIn	39	187	145	192	108
LIn	Menit 39	Menit 8	Menit 13	Menit 13	Menit 25
FE	0	6	2	6	1
LE	-	Menit 20	Menit 26	Menit 20	Menit 22
PE	-	Menit 28	Menit 33	Menit 28	Menit 32

Pengamatan keempat

Parameter	Kelompok Perlakuan				
	NaCMC	X-Gra	100 mg	200 mg	300 mg
FI	19	200	199	208	135
LI	Menit 21	Menit 4	Menit 7	Menit 1	Menit 14
FM	22	154	150	167	147
LM	Menit 27	Menit 2	Menit 4	Menit 3	Menit 11
FIn	13	211	171	260	118
LIn	Menit 38	Menit 6	Menit 14	Menit 3	Menit 25
FE	0	8	3	9	1
LE	-	Menit 17	Menit 14	Menit 22	Menit 20
PE	-	Menit 26	Menit 27	Menit 29	Menit 36

Pengamatan 1-4

Parameter	Kelompok Perlakuan				
	NaCMC	X-Gra	100 mg	200 mg	300 mg
FI	119	699	612	716	468
LI	Menit 20	Menit 7	Menit 10	Menit 6	Menit 14
FM	185	501	471	555	447
LM	Menit 24	Menit 8	Menit 12	Menit 8	Menit 19
FIn	95	595	513	666	345
LIn	Menit 38	Menit 11	Menit 16	Menit 12	Menit 26
FE	0	15	5	17	2
LE	-	Menit 19	Menit 18	Menit 21	Menit 20
PE	-	Menit 28	Menit 30	Menit 28	Menit 34

Data Hasil Perilaku Kawin Pengamatan 1-4

Pengamatan Pertama				Pengamatan Kedua				Pengamatan Ketiga				Pengamatan Keempat			
Perlakuan	FI	FM	FIn	Perlakuan	FI	FM	FIn	Perlakuan	FI	FM	FIn	Perlakuan	FI	FM	FIn
NaCMC	7	10	6	NaCMC	9	15	7	NaCMC	3	6	2	NaCMC	2	4	1
	9	13	4		11	20	3		2	2	1		6	6	2
	5	14	3		6	18	5		9	5	5		2	3	5
	7	8	5		10	13	6		6	9	1		4	5	2
	6	13	2		5	9	2		5	8	0		5	4	3
X-Gra	28	17	16	X-Gra	35	24	22	X-Gra	39	25	40	X-Gra	40	36	42
	30	21	20		32	30	30		35	21	37		45	35	48
	25	19	18		36	20	19		44	33	45		36	26	36
	24	12	10		29	17	12		28	27	30		36	25	39
	33	24	24		39	27	26		32	30	35		43	32	46
100 mg	21	11	13	100 mg	30	18	20	100 mg	32	22	22	100 mg	39	31	32
	19	15	17		27	21	22		38	32	36		37	31	36
	29	19	24		31	23	26		26	27	29		50	36	46
	23	21	22		25	17	18		36	30	34		43	27	28
	26	16	21		22	25	14		28	24	24		30	25	29
200 mg	34	22	18	200 mg	35	26	24	200 mg	37	36	39	200 mg	45	35	55
	32	26	24		33	29	29		44	39	47		49	39	53
	24	19	16		39	25	24		31	22	32		32	25	48
	26	15	11		24	18	16		25	20	28		38	28	45
	39	27	20		45	30	32		40	24	46		44	40	59
300 mg	17	15	10	300 mg	20	19	11	300 mg	20	23	15	300 mg	24	28	20
	13	11	9		24	21	15		27	29	26		30	34	29
	20	19	7		30	20	20		31	36	30		26	27	26
	23	21	12		26	23	17		23	21	16		21	22	21
	12	6	6		21	14	12		26	22	21		34	36	22

Data Hasil Ejakulasi Pengamatan 1-4

Pengamatan Pertama			Pengamatan Kedua			Pengamatan Ketiga			Pengamatan keempat		
Parameter	Ejakulasi		Post Ejaculatory waktu	Parameter	Ejakulasi		Post Ejaculatory waktu	Parameter	Ejakulasi		Post Ejaculatory waktu
	Jumlah	Waktu			Jumlah	Waktu (W waktu)			Jumlah	Waktu	
NaCMC	0	0	0	NaCMC	0	0	0	NaCMC	0	0	0
	0	0	0		0	0	0		0	0	0
	0	0	0		0	0	0		0	0	0
	0	0	0		0	0	0		0	0	0
	0	0	0		0	0	0		0	0	0
X-Gra	0	0	0	X-Gra	1	22.39	34.14	X-Gra	1	18.51	25.45
	0	0	0		0	0	0		1	19.23	27.11
	0	0	0		0	0	0		2	17.48	25.55
	0	0	0		0	0	0		1	21.09	29.13
	0	0	0		0	0	0		1	23.37	30.02
100 mg	0	0	0	100 mg	0	0	0	100 mg	1	25.59	31.43
	0	0	0		0	0	0		1	27.36	35.16
	0	0	0		0	0	0		0	0	0
	0	0	0		0	0	0		0	0	0
	0	0	0		0	0	0		0	0	0
200 mg	0	0	0	200 mg	1	19.42	29.07	200 mg	1	22.17	29.33
	0	0	0		0	0	0		1	21.46	28.57
	0	0	0		0	0	0		3	17.48	24.45
	0	0	0		0	0	0		1	19.44	27.36
	0	0	0		0	0	0		0	0	0
300 mg	0	0	0	300 mg	0	0	0	300 mg	1	21.38	32.15
	0	0	0		0	0	0		0	0	0
	0	0	0		0	0	0		0	0	0
	0	0	0		0	0	0		0	0	0
	0	0	0		0	0	0		0	0	0
	0	0	0		0	0	0		0	0	0

Lampiran 6. Rekomendasi Persetujuan Etik



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN UNIVERSITAS HASANUDDIN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu
JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.



Contact Person: dr. Agussalim Bukhari, MMed,PhD, SpCK. TELP. 081241850858, 0411 5780103, Fax : 0411-581431

REKOMENDASI PERSETUJUAN ETIK

Nomor : 473/UN4.6.4.5.31/ PP36/ 2023

Tanggal: 10 Juli 2023

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No Protokol	UH23060361		No Sponsor	
Peneliti Utama	Pebbi Atu Putri		Sponsor	
Judul Peneliti	Uji Efek Afrodisiaka Fraksi Larut Etil Asetat Batang Sanrego (Lunasia amara Blanco) Terhadap Peningkatan Libido Seksual Diliat Dari Pola Perilaku Kawin Tikus Putih Jantan (<i>Rattus norvegicus</i>)			
No Versi Protokol	1	Tanggal Versi	30 Mei 2023	
No Versi PSP		Tanggal Versi		
Tempat Penelitian	Fakultas Farmasi Universitas Hasanuddin Makassar			
Jenis Review	<input type="checkbox"/> Exempted	Masa Berlaku	Frekuensi review lanjutan	
	<input checked="" type="checkbox"/> Expedited	10 Juli 2023 sampai 10 Juli 2024		
	<input type="checkbox"/> Fullboard Tanggal			
Ketua KEP Universitas Hasanuddin	Nama Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)	Tanda tangan		
Sekretaris KEP Universitas Hasanuddin	Nama dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)	Tanda tangan		

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Laporan SUSAR dalam 72 jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan