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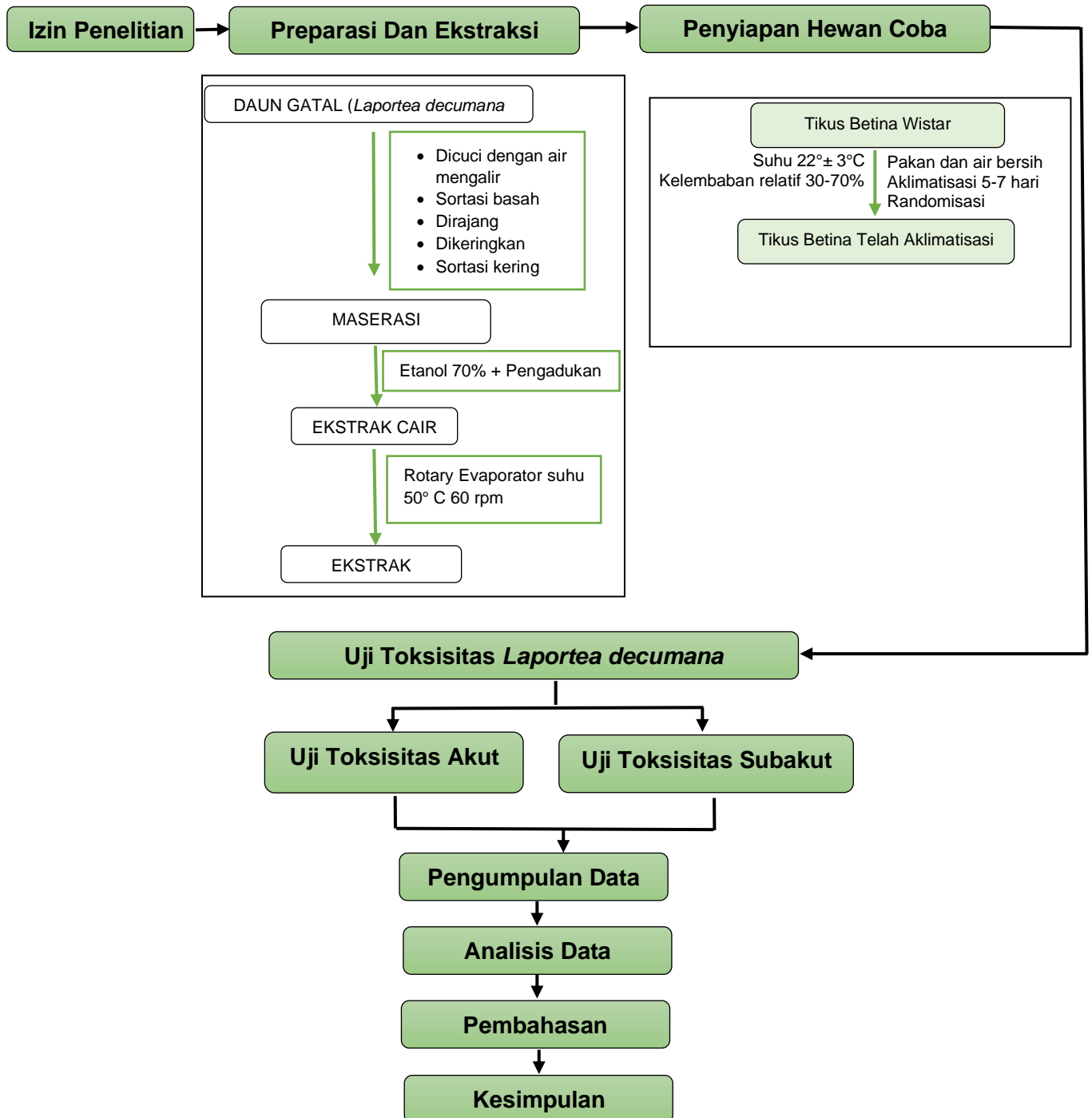
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## LAMPIRAN

### Lampiran 1. Skema Penelitian

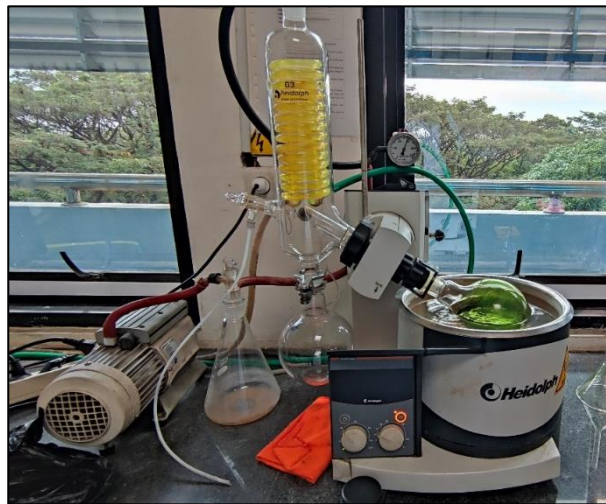




## Lampiran 2. Dokumentasi Penelitian



Gambar 7. Sampel Daun Gatal (*Laportea decumana*)



Gambar 8. Proses Penguapan Dengan Rotary Evaporator



Gambar 9. Sediaan Uji Toksisitas



**Gambar 10. Pengukuran Makan Dan Minum Tikus**



**Gambar 11. Pemberian Sediaan Uji Secara Oral Pada Tikus**



**Gambar 12. Pembedahan Tikus**



**Gambar 13. Proses Pembuatan Preparat Histopatologi Organ. (A) Organ direndam dalam formalin 10%, (B) Dehidrasi dengan alkohol bertingkat, (C) Organ ditanam dalam blok parafin, (D) Organ dipotong dengan ketebalan  $0.5 \mu\text{m}$ , (E) Proses pewarnaan**

### Lampiran 3. Data Statistik

#### 1. Kelompok Kontrol

Tikus ke-	AST		ALT		Urea		Kreatinin	
	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	104.7	132.9	40.3	39.1	43.4	42.1	0.61	0.54
2	116	164.9	39.8	40.3	38	41.4	0.74	0.61
3	85.1	135.4	32.3	35.6	40.3	44.6	0.67	0.50
4	112.1	120.7	32.7	32.7	37.8	34.4	0.55	0.57

#### Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	PreTest_AST	104.4750	4	13.74054	6.87027
	PostTest_AST	138.4750	4	18.75071	9.37536
Pair 2	PreTest_ALT	36.2750	4	4.36683	2.18341
	PostTest_ALT	36.9250	4	3.45097	1.72548
Pair 3	PreTest_Urea	39.8750	4	2.60944	1.30472
	PostTest_Urea	40.6250	4	4.37140	2.18570
Pair 4	PreTest_Creatinin	.6425	4	.08139	.04070
	PostTest_Creatinin	.5550	4	.04655	.02327

#### Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	PreTest_AST & PostTest_AST	4	.294	.706
Pair 2	PreTest_ALT & PostTest_ALT	4	.907	.093
Pair 3	PreTest_Urea & PostTest_Urea	4	.536	.464
Pair 4	PreTest_Creatinin & PostTest_Creatinin	4	.260	.740



### Paired Samples Test

		Paired Differences					t	df	Sig. (2- tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	PreTest_AST - PostTest_AST	-34.00000	19.71886	9.85943	-65.37710	-2.62290	-3.448	3	.041
Pair 2	PreTest_ALT - PostTest_ALT	-.65000	1.90526	.95263	-3.68169	2.38169	-.682	3	.544
Pair 3	PreTest_Urea - PostTest_Urea	-.75000	3.69910	1.84955	-6.63609	5.13609	-.406	3	.712
Pair 4	PreTest_Creatinin - PostTest_Creatinin	.08750	.08261	.04131	-.04396	.21896	2.118	3	.124

## 2. Dosis 250 mg/kgBB

Tikus ke-	AST		ALT		Urea		Kreatinin	
	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	181.5	132.6	35.4	38.4	28.6	60	0.64	0.36
2	106.6	146.2	33.5	39.8	32.4	40.6	0.76	0.72
3	135	135.9	37.8	51.3	37.7	49.3	0.76	0.46
4	153.1	146.4	41.2	39.7	29	46.5	1.15	0.62
5	110.9	128	25	33.1	35.1	35.5	0.63	0.52

### Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	PreTest_AST	137.4200	5	31.01592	13.87074
	PostTest_AST	137.8200	5	8.23420	3.68244
Pair 2	PreTest_ALT	34.5800	5	6.07882	2.71853
	PostTest_ALT	40.4600	5	6.65079	2.97432
Pair 3	PreTest_Urea	32.5600	5	3.91318	1.75003
	PostTest_Urea	46.3800	5	9.29823	4.15829
Pair 4	PreTest_Creatinin	.7880	5	.21183	.09473
	PostTest_Creatinin	.5360	5	.13957	.06242

### Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	PreTest_AST & PostTest_AST	5	-.087	.890
Pair 2	PreTest_ALT & PostTest_ALT	5	.615	.270
Pair 3	PreTest_Urea & PostTest_Urea	5	-.454	.443
Pair 4	PreTest_Creatinin & PostTest_Creatinin	5	.473	.421

### Paired Samples Test

		Paired Differences				t	df	Sig. (2- tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference Lower Upper			
Pair 1	PreTest_AST - PostTest_AST	-.40000	32.77453	14.65722	-40.29496 41.09496	-.027	4	.980
Pair 2	PreTest_ALT - PostTest_ALT	-5.88000	5.61088	2.50926	-1.08683 12.84683	-2.343	4	.079
Pair 3	PreTest_Urea - PostTest_Urea	-13.82000	11.61043	5.19234	-.59625 28.23625	-2.662	4	.056
Pair 4	PreTest_Creatinin - PostTest_Creatinin	.25200	.19071	.08529	.01520 .48880	2.955	4	.042

### 3. Dosis 500 mg/kgBB

Tikus ke-	AST		ALT		Urea		Kreatinin	
	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	111	140.7	32.2	29.8	28.4	36.9	0.73	0.51
2	75.9	138.2	22.7	43.2	36	35.4	0.78	0.47
3	52	121.3	19.3	35.3	51.9	54.8	0.88	0.66
4	63.1	112.3	31.9	46.6	31.2	66.8	0.73	0.63
5	93.4	153	39.7	62	45.1	53.2	0.86	0.61

### Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	PreTest_AST	83.0800	5	21.81483	9.75589
	PostTest_AST	133.1000	5	16.21465	7.25141
Pair 2	PreTest_ALT	29.1600	5	8.16688	3.65234
	PostTest_ALT	43.3800	5	12.31674	5.50821
Pair 3	PreTest_Urea	38.5200	5	9.80648	4.38559
	PostTest_Urea	49.4200	5	13.21560	5.91019
Pair 4	PreTest_Creatinin	.7960	5	.07092	.03172
	PostTest_Creatinin	.5760	5	.08173	.03655

### Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	PreTest_AST & PostTest_AST	5	.528	.360
Pair 2	PreTest_ALT & PostTest_ALT	5	.608	.277
Pair 3	PreTest_Urea & PostTest_Urea	5	.254	.680
Pair 4	PreTest_Creatinin & PostTest_Creatinin	5	.505	.385

### Paired Samples Test

		Paired Differences					t	df	Sig. (2- tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	PreTest_AST - PostTest_AST	-50.02000	19.10934	8.54596	-73.74738	-26.29262	-5.853	4	.004
Pair 2	PreTest_ALT - PostTest_ALT	-14.22000	9.80240	4.38377	-26.39128	-2.04872	-3.244	4	.032
Pair 3	PreTest_Urea - PostTest_Urea	-10.90000	14.31730	6.40289	-28.67727	6.87727	-1.702	4	.164
Pair 4	PreTest_Creatinin - PostTest_Creatinin	-.22000	.07649	.03421	-.12503	.31497	-6.432	4	.003

#### 4. Dosis 1000 mg/kgBB

Tikus ke-	AST		ALT		Urea		Kreatinin	
	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	78.6	119.7	20	37.5	35.2	32.7	0.76	0.49
2	115.7	222.1	34.1	68.6	34.1	43.6	0.66	0.49
3	94.4	137.8	27.4	39.4	20.4	36.4	0.87	0.61
4	86.9	111.8	20.9	47.9	24.3	33.9	0.69	0.47
5	91.8	203.9	51.1	57.7	20.5	48.4	0.84	0.61

#### Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	PreTest_AST	93.4800	5	13.80315	6.17296
	PostTest_AST	159.0600	5	50.54545	22.60461
Pair 2	PreTest_ALT	30.7000	5	12.73911	5.69710
	PostTest_ALT	50.2200	5	13.01949	5.82249
Pair 3	PreTest_Urea	26.9000	5	7.25775	3.24577
	PostTest_Urea	39.0000	5	6.74500	3.01645
Pair 4	PreTest_Creatinin	.7640	5	.09127	.04082
	PostTest_Creatinin	.5340	5	.06986	.03124

#### Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	PreTest_AST & PostTest_AST	5	.789	.112
Pair 2	PreTest_ALT & PostTest_ALT	5	.617	.267
Pair 3	PreTest_Urea & PostTest_Urea	5	-.251	.684
Pair 4	PreTest_Creatinin & PostTest_Creatinin	5	.914	.030



### Paired Samples Test

		Paired Differences					Sig. (2-tailed)		
		95% Confidence Interval of the							
		Difference							
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper	t	df	
Pair 1	PreTest_AST - PostTest_AST	-65.58000	40.54771	18.13349	-115.92663	-15.23337	-3.617	4	.022
Pair 2	PreTest_ALT - PostTest_ALT	-19.52000	11.26841	5.03938	-33.51158	-5.52842	-3.873	4	.018
Pair 3	PreTest_Urea - PostTest_Urea	-12.10000	11.07949	4.95490	-25.85700	1.65700	-2.442	4	.071
Pair 4	PreTest_Creatinin - PostTest_Creatinin	.23000	.03937	.01761	-.18112	.27888	13.063	4	.000

## Lampiran 4. Kode Etik Penelitian

 <p>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, M.Med,PhD, SpCK TELP. 081241850858, 0411 5780103. Fax : 0411-581431</p> 			
<b>REKOMENDASI PERSETUJUAN ETIK</b>			
Nomor : 516/UN4.6.4.5.31/ PP36/ 2023			
Tanggal: 27 Juli 2023			
Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :			
No Protokol	UH23060423	No Sponsor	
Peneliti Utama	<b>apt Yasmin Ghallyah Hasan, S.Si</b>	Sponsor	
Judul Peneliti	EFEK TOKSIK PEMBERIAN AKUT DAN SUBAKUT EKSTRAK ETANOL DAUN GATAL ( <i>Laportea decumana</i> ) TERHADAP FUNGSI HATI DAN GINJAL TIKUS PUTIH BETINA		
No Versi Protokol	2	Tanggal Versi	27 Juli 2023
No Versi PSP		Tanggal Versi	
Tempat Penelitian	Fakultas Farmasi Universitas Hasanuddin Makassar		
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku 27 Juli 2023 sampai 27 Juli 2024	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	Nama <b>Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)</b>	Tanda tangan 	
Sekretaris KEP Universitas Hasanuddin	Nama <b>dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)</b>	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 prokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

## Lampiran 5. Perhitungan

### A. Dosis Uji Toksisitas Akut

- **Dosis 2000 mg/kgBB**

$$\text{Jumlah ekstrak ditimbang} = \frac{2000 \text{ mg}}{1000g} \times \text{berat tikus}$$

$$\text{Jumlah ekstrak ditimbang} = \frac{2000 \text{ mg}}{1000g} \times 200 \text{ g} = 400 \text{ mg}$$

### B. Dosis Uji Toksisitas Subakut

- **Dosis 1000 mg/kgBB**

$$\text{Jumlah ekstrak ditimbang} = \frac{1000 \text{ mg}}{1000g} \times \text{berat tikus}$$

$$\text{Jumlah ekstrak ditimbang} = \frac{1000 \text{ mg}}{1000g} \times 200 \text{ g} = 200 \text{ mg}$$

- **Dosis 500 mg/kgBB**

$$\text{Jumlah ekstrak ditimbang} = \frac{500 \text{ mg}}{1000g} \times \text{berat tikus}$$

$$\text{Jumlah ekstrak ditimbang} = \frac{500 \text{ mg}}{1000g} \times 200 \text{ g} = 100 \text{ mg}$$

- **Dosis 250 mg/kgBB**

$$\text{Jumlah ekstrak ditimbang} = \frac{250 \text{ mg}}{1000g} \times \text{berat tikus}$$

$$\text{Jumlah ekstrak ditimbang} = \frac{250 \text{ mg}}{1000g} \times 200 \text{ g} = 50 \text{ mg}$$

### C. Konversi Dosis hewan ke manusia

$$\text{HED (mg/kg)} = [\text{Dosis Hewan (mg/kg)} \times \left[ \frac{\text{Berat Hewan (kg)}}{\text{Berat Manusia (kg)}} \right]^{(1-0.67)}]$$

$$\text{HED (mg/kg)} = [250 \text{ (mg/kg)} \times \left[ \frac{0.18}{60} \right]^{(0.33)}]$$

$$\text{HED (mg/kg)} = 36,76 \text{ mg/kg}$$

Untuk manusia dengan berat badan 60 kg (nilai faktor 10) maka

$$\text{HED (mg/kg) untuk 60 kg} = \frac{36,76 \text{ mg/kg} \times 60}{10}$$

$$\text{HED (mg/kg) untuk 60 kg} = 220.56 \text{ mg} = 0.22 \text{ gram}$$