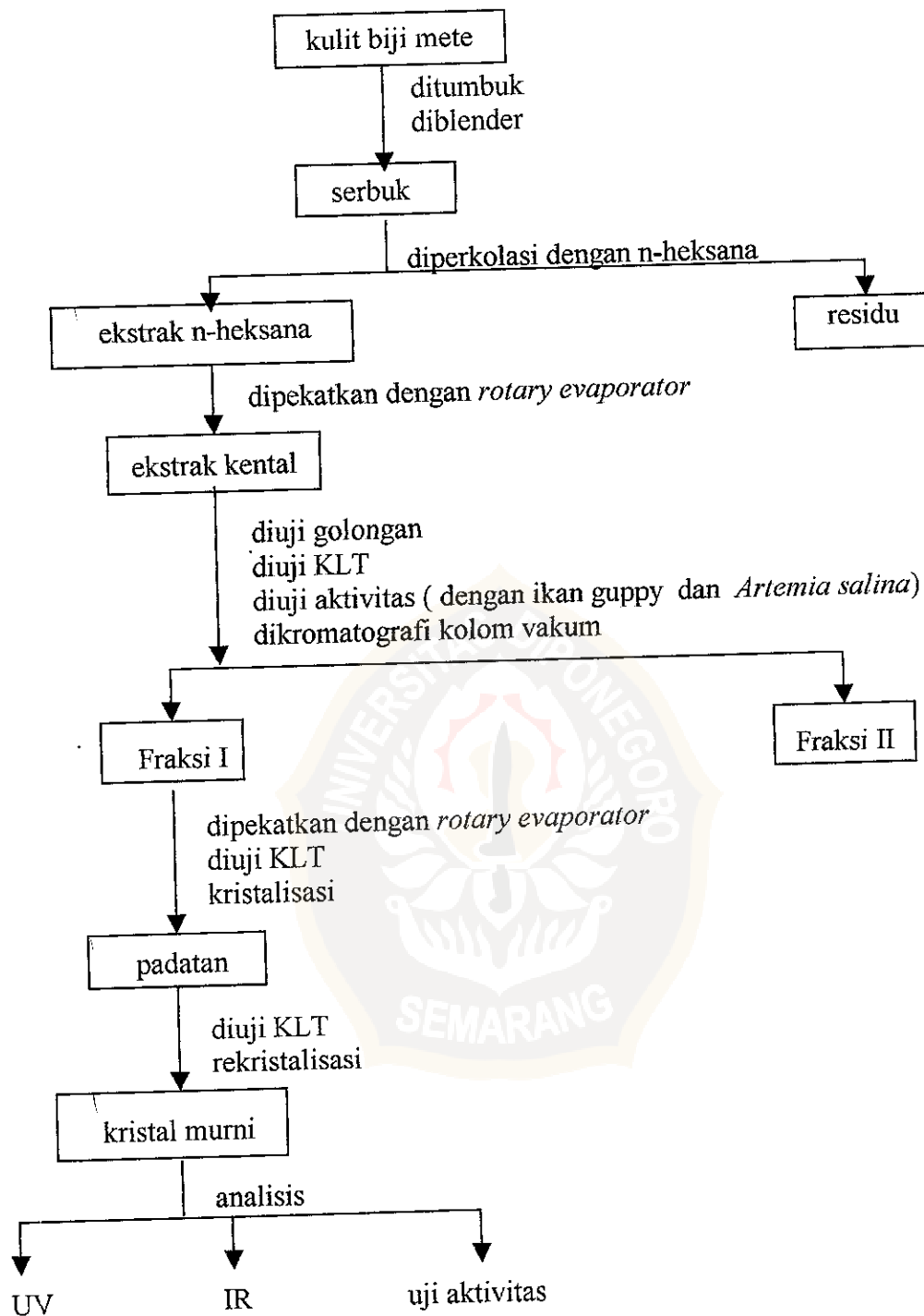


Lampiran 1. Skema Kerja



Lampiran 2. Hasil uji aktivitas ekstrak kasar terhadap ikan guppy

Konsentrasi (ppm)	Jumlah ikan guppy	Jumlah kematian		
		1	2	3
40	10	10	10	10
30	10	10	10	9
25	10	9	10	9
20	10	8	8	7
15	10	6	5	6
10	10	3	3	2
5	10	0	0	1
0	10	0	0	0



Lampiran 3. Prosentase kematian ikan guppy

Konsentrasi (ppm)	Jumlah ikan guppy	Prosentasi kematian (%)		
		1	2	3
40	10	100	100	100
30	10	100	100	90
25	10	90	100	90
20	10	80	80	70
15	10	60	50	60
10	10	30	30	20
5	10	0	0	10
0	10	0	0	0

Prosentase kematian dihitung dengan rumus :

$$\%K = \frac{A - B}{C} \times 100\%$$

A = Jumlah hewan yang mati pada penambahan zat

B = Jumlah hewan yang mati pada kontrol

C = Jumlah hewan mula-mula

Lampiran 4. Perhitungan LC₅₀ Ekstrak Kasar terhadap Ikan Guppy

LC₅₀ dapat dihitung dengan rumus : ¹⁰⁾

$$LC_{50} = \frac{(50 - y_1)(x_2 - x_1)}{y_2 - y_1} + x_1$$

y₁ = batas bawah prosentase kematian hewan

y₂ = batas atas prosentase kematian hewan

x₁ = batas bawah konsentrasi ekstrak

x₂ = batas atas konsentrasi ekstrak

$$LC_{50} (1) = \frac{(50 - 30)(15 - 10)}{(60 - 30)} + 10 \text{ ppm}$$

$$= \frac{100}{30} + 10 \text{ ppm} = 13,33 \text{ ppm}$$

$$LC_{50} (2) = \frac{(50 - 20)(15 - 10)}{(50 - 20)} + 10 \text{ ppm}$$

$$= \frac{100}{30} + 10 \text{ ppm} = 15 \text{ ppm}$$

$$LC_{50} (3) = \frac{(50 - 30)(15 - 10)}{(60 - 30)} + 10 \text{ ppm}$$

$$= \frac{100}{30} + 10 \text{ ppm} = 13,33 \text{ ppm}$$

Pengulangan	LC ₅₀ (ppm)
1	13,33
2	15
3	13,33
Rata-rata	13,8

Lampiran 5. Hasil Uji Aktivitas dengan Metode 'Brine Shrimp Lethality'

3.1. Ekstrak kasar

Konsentrasi (ppm)	Jumlah <i>Artemia salina</i> asal	Jumlah <i>Artemia salina</i> mati
1000	30	30
100	30	28
10	30	26

3.2. Senyawa hasil isolasi

Konsentrasi (ppm)	Jumlah <i>Artemia salina</i> asal	Jumlah <i>Artemia salina</i> mati
666,7	30	30
66,7	30	27
13,3	30	25



Lampiran 6. Perhitungan LC50 dengan 'Bliss Methode'

CALC. 'ED50' BY BLISS METHOD

CURVE # 1 : P(PROBIT) = 5.395067 + .6547008 * LOG(D)
 R = .951041 R0.01=-.9799631 R0.05=-.9976779
 ED95 = 81.09874 (95% CONFIDENCE INTERVAL: 13.6297 - 482.5494)
 ✓ED50 = .249212 ✓ (95% CONFIDENCE INTERVAL: 1.711613E-03 - 36.28543)
 ED5 = 7.658149E-04

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(95% CONFIDENCE INTERVAL: 2.001477E-08 - 29.30196)
 B= .6547008 SB= .2677625 X50=-.603431 SX50= 1.103655

DOES	E(NO.)	T(NO.)	P(%)	PCALC.
1000	30	30	100	99.08421
100	28	30	93.33334	95.58532
10	26	30	86.66666	85.30874

CALC. 'ED50' BY BLISS METHOD

CURVE # 1 : P(PROBIT) = 5.306251 + .727385 * LOG(D)
 R = .9521694 R0.01=-.9799631 R0.05=-.9976779
 ED95 = 69.24015 (95% CONFIDENCE INTERVAL: 14.59092 - 328.5741)
 ✓ED50 = .3792887 ✓ (95% CONFIDENCE INTERVAL: 1.302438E-03 - 110.4543)
 ED5 = 2.077694E-03

(95% CONFIDENCE INTERVAL: 1.712331E-08 - 252.1012)
 B= .727385 SB= .3149044 X50=-.4210302 SX50= 1.257252

DOES	E(NO.)	T(NO.)	P(%)	PCALC.
843	30	30	100	99.25429
84.3	28	30	93.33334	95.60954
16.8	27	30	90	88.44485

CALC. 'ED50' BY BLISS METHOD

CALC. 'ED50' BY BLISS METHOD

CURVE # 1 : P(PROBIT) = 4.926769 + .8530186 * LOG(D)
 R = .9640139 R0.01=-.9799631 R0.05=-.9976779
 ED95 = 103.3185 (95% CONFIDENCE INTERVAL: 23.11578 - 461.7925)
 ✓ED50 = 1.218567 ✓ (95% CONFIDENCE INTERVAL: 5.430843E-02 - 27.34208)
 ED5 = 1.437213E-02

(95% CONFIDENCE INTERVAL: 1.339347E-05 - 15.42229)
 B= .8530186 SB= .3171936 X50= .0858495 SX50= .6892766

DOES	E(NO.)	T(NO.)	P(%)	PCALC.
666.7	30	30	100	99.02448
.66.7	27	30	90	93.09338
13.3	25	30	83.33333	81.20386

uji haquti pendahuluan Brine shrimp lethality (Nauplius Artemia salina Leach)

- LC-50 < 30 Sitotoksik
- 30 - 200 Antimikroba
- > 200 Pestisida